

***SNAPPER*PROTM** **Parts Manual** **S50X Series** **Zero-Turn Riding Mower**

**Models:**

5900683
5900734
5900709

Description:

S50XKAV1936, 36" 19HP Kawasaki Mid Mount Zero-Turn Rider
S50XBS1948, 48" 19HP Kawasaki Mid Mount Zero-Turn Rider
S50XBS2648, 48" 26HP Briggs & Stratton Mid Mount Zero-Turn Rider

Briggs and Stratton Yard Power Products Group

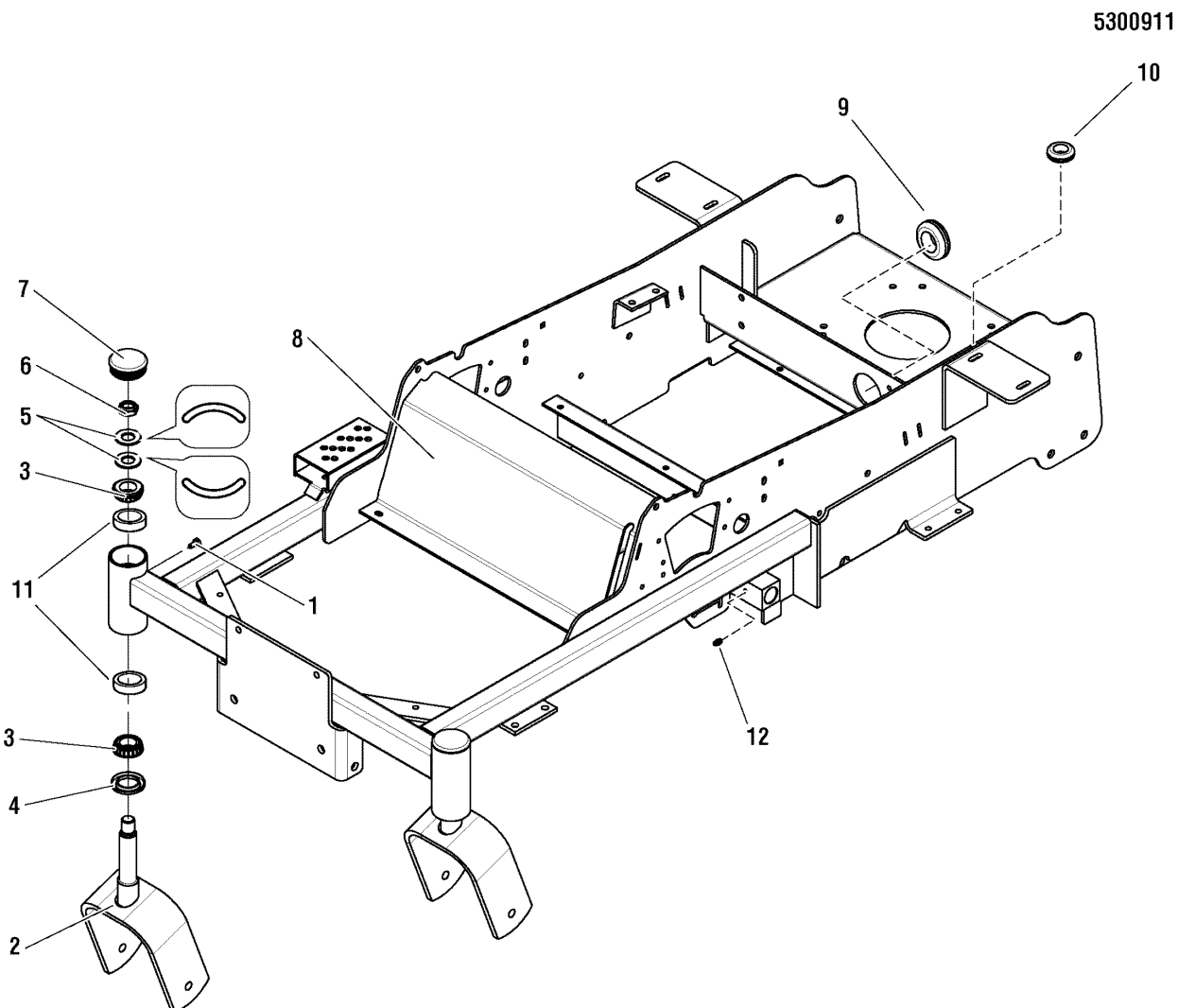
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Torque Specification Chart	Inside Back Cover

Main Frame & Front Caster Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

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Main Frame & Front Caster Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025457	2	BOLT, 1/4-28 X 1/2, GD5 YZ
2	5402539D	2	WELD, CASTER YOKE, IS500Z
3	5020884	4	BEARING, TAPERED ROLLER, 1"
4	5021072	2	SEAL, GREASE
5	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
6	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK
7	5100882	2	CAP, CASTER SPINDLE, LOW PROFILE
8	5402841D	1	WELD, MAINFRAME, SNAPPER PRO 38-44 - RED
9	5100716	1	GROMMET, 2" ID
10	5021379	1	GROMMET, 7/8
11	5020883	1	CUP, BEARING (SV)
12	5020095	2	GREASE FITTING, 1/4-28 STRAIGHT

Footnotes

The above parts group applies to the following Mfg. Nos.:

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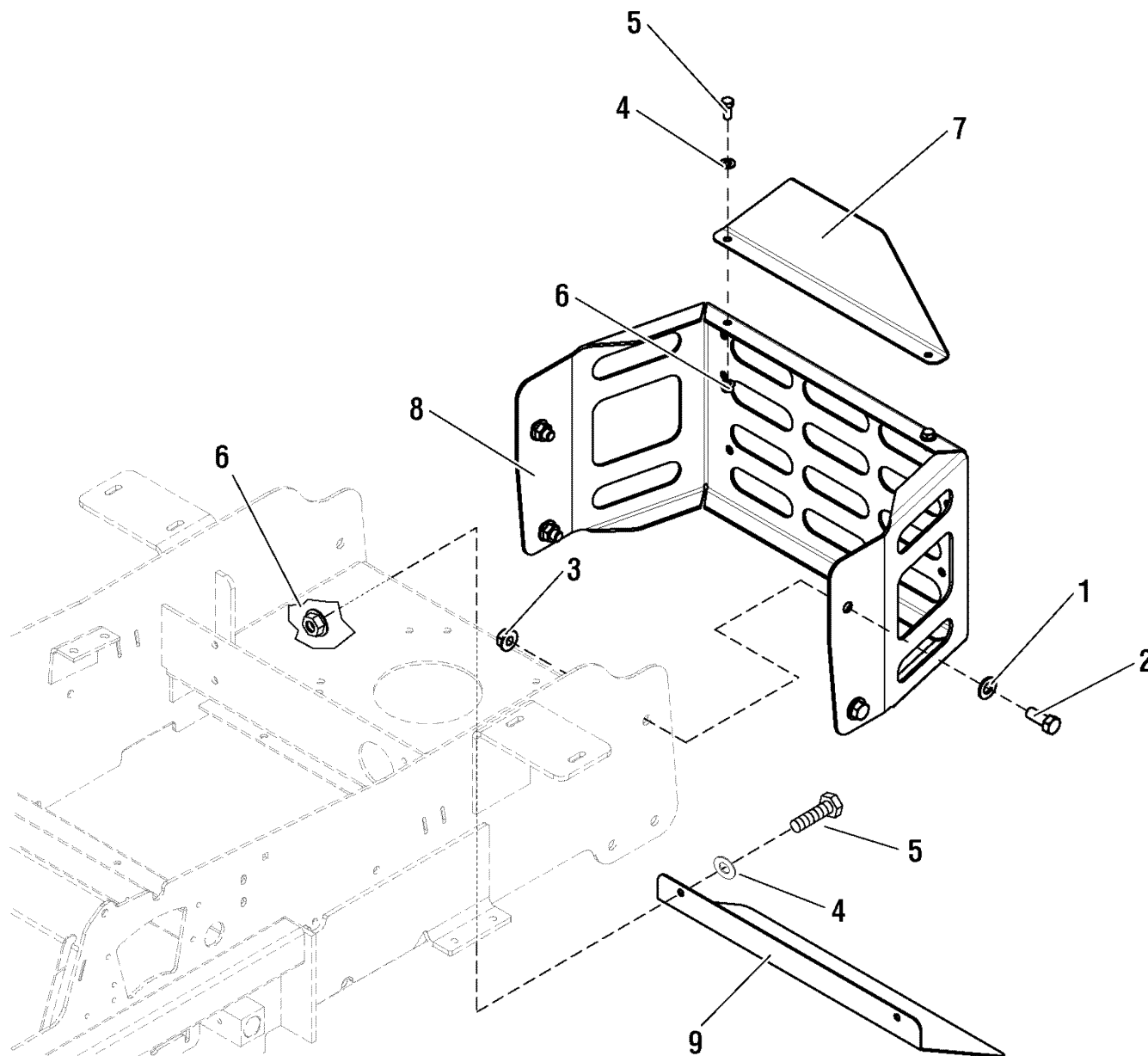
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Rear Bumper Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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Rear Bumper Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025158	4	WASHER, 1/2 SAE
2	5025017X12	4	BOLT, 1/2-13 X 1-1/2 GD5 YZ
3	5025396	4	NUT, 1/2-13 HEX NYLOCK FLANGE
4	5025155	4	WASHER, 5/16 SAE
5	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
6	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
7	5403018D	1	PLATE, CARB GUARD - RED
8	5403573D	1	WELD, PLATE, BUMPER - RED
9	5403593D	1	SHIELD, MUFFLER - RED

Footnotes

The above parts group applies to the following Mfg. Nos.:

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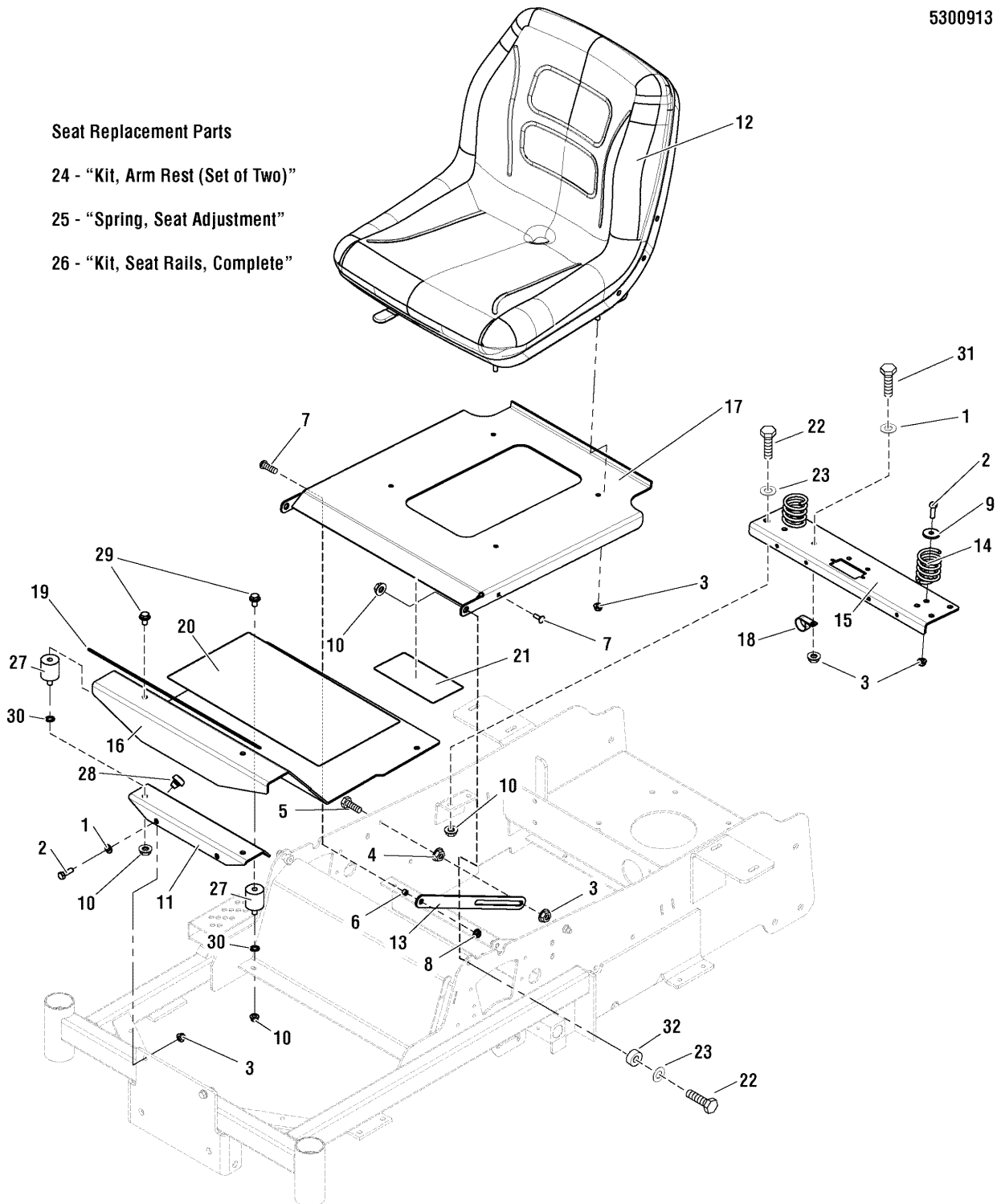
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Seat Mount & Floor Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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Seat Mount & Floor Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025155	3	WASHER, 5/16 SAE
2	5025011X8	4	BOLT, 5/16-18 X 1 GD5 YZ
3	5025392	10	NUT, 5/16-18 HEX NYLOCK FLANGE
4	5025127	1	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
5	5025011X10	1	BOLT, 5/16-18 X 1-1/4 GD5 YZ
6	5021878	1	SPACER, .25 X .37 X .25
7	5025144X6	1	BOLT, 1/4-20 X 3/4", CARRIAGE
8	5025391	1	NUT, 1/4-20 HEX NYLOCK FLANGE
9	5044617	2	WASHER, .34 X 1.25 X 10 GA
10	5025394	10	NUT, 3/8-16 HEX NYLOCK FLANGE
11	5403706D	1	PLATE, SIO FLOOR MOUNT - RED
12	5100909	1	SEAT, NO ARM REST
13	5403015D	1	SEAT PLATE, STOP - RED
14	7078299	2	SPRING, SEAT SUPPORT
15	5402859D	1	MOUNT, SEAT STOP - RED
16	5403555D	1	PLATE, FOOT REST - RED
17	5403574D	1	WELD, PLATE, SEAT MOUNT - RED
18	5023263	1	VINYL CLAMP
19	5101374	1	SAFETY WALK, FLOOR REST, 16.00 X 6.00
20	5101333	1	SAFETY WALK, FLOOR PLATE, S50X, 10X17.13
21	5101004	1	SAFETY WALK, 4.00 X 7.50
22	5025013X8	6	BOLT, 3/8-16 X 1 GD5 YZ
23	5025156	6	WASHER, 3/8 SAE
24	1686907	1	ARM REST (SET OF TWO) (SV)
25	5100636	1	SPRING, SEAT ADJUSTMENT (SV)
26	5061599X1	1	KIT, SEAT RAILS (COMPLETE)(SV)
27	197546	4	MOUNT, VIBRATION, RUBBER
28	5100383	2	BUMPER, ROPS
29	5025481	4	BOLT, 3/8-16 X 5/8, SERRATED UNDER HEAD
30	5025480	4	WASHER, 3/8" ID, INTERNAL TOOTH
31	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
32	5041930	2	SPACER, .38 X .50 X .27

Footnotes

The above parts group applies to the following Mfg. Nos.:

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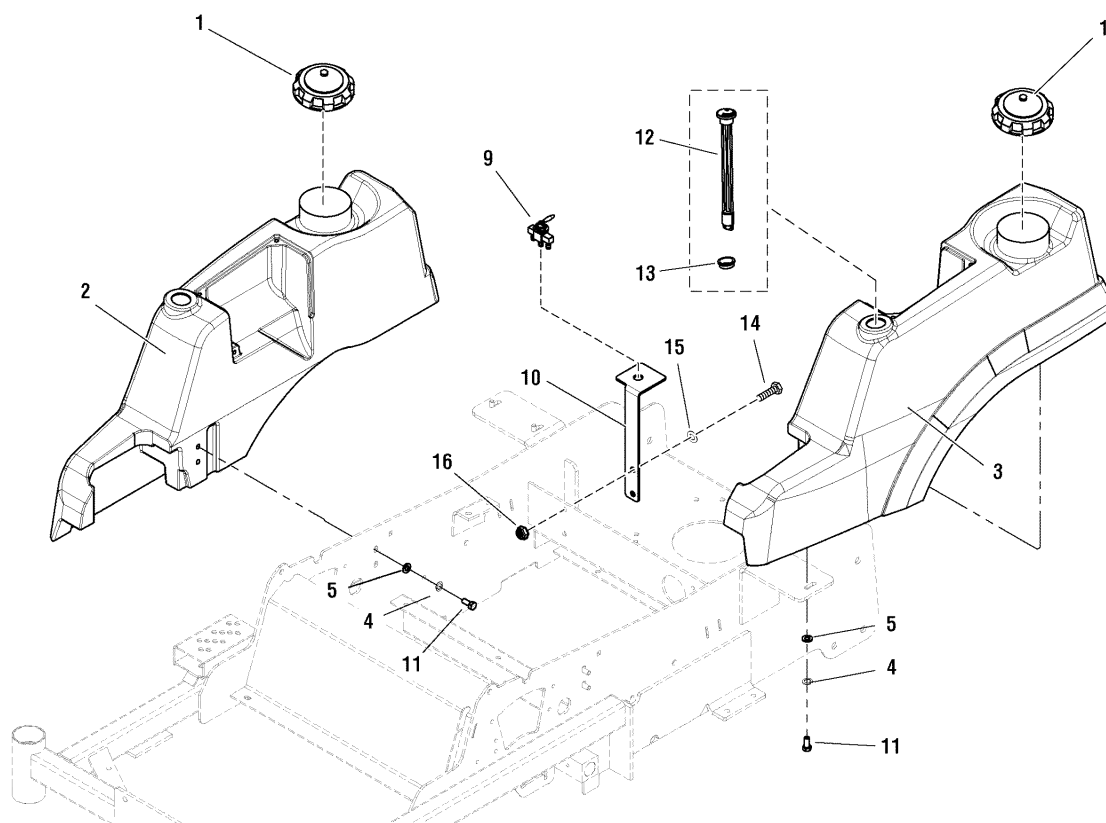
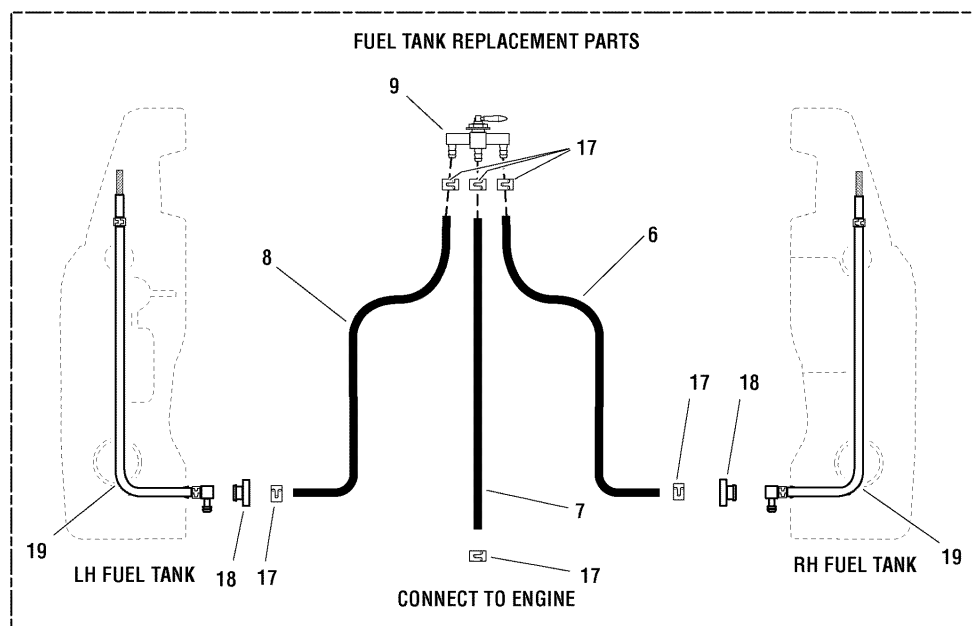
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Fuel Tank Mount & Supply Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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Fuel Tank Mount & Supply Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5101272	2	FUEL CAP, 3.5", VENTED
2	5101070	1	TANK, FUEL, RH, SNAPPER PRO S50X (INCLUDES REF NOS 12, 13, 18 & 19)
3	5101071	1	TANK, FUEL, LH, SNAPPER PRO S50X (INCLUDES REF NOS 12, 13, 18 & 19)
4	5025170	8	WASHER, 5/16 LOCK YZ
5	5025155	8	WASHER, 5/16 SAE
6	5050831X15	1	HOSE, FUEL, 1/4 IN, LW PRMTN, 15" LONG
7	5050831X6	1	HOSE, FUEL, 1/4 IN, LW PRMTN, 6" LONG
8	5050831X24	1	HOSE, FUEL, 1/4 IN, LW PRMTN, 24" LONG
9	5023358	1	VALVE, FUEL, STR. OUTLET
10	5401108D	1	BRACKET, FUEL VALVE, IS3000 - RED
11	5025011X8	8	BOLT, 5/16-18 X 1 GD5 YZ
12	5022917	1	FUEL GAUGE, 12" (SV)
13	5022917X1	1	GROMMET, FUEL GAUGE (SV)
14	5025013X10	1	BOLT, 3/8-16 X 1-1/4 GD5
15	5025156	1	WASHER, 3/8 SAE
16	5025394	1	NUT, 3/8-16 HEX NYLOCK FLANGE
17	5020835	6	CLAMP, HOSE, EXTERNAL, 1/2 - RED
18	5600050	2	KIT, BUSHING FUEL (SV)
19	5101144	2	PICKUP TUBE ASSEMBLY, FUEL LINE (SV)

Footnotes

The above parts group applies to the following Mfg. Nos.:

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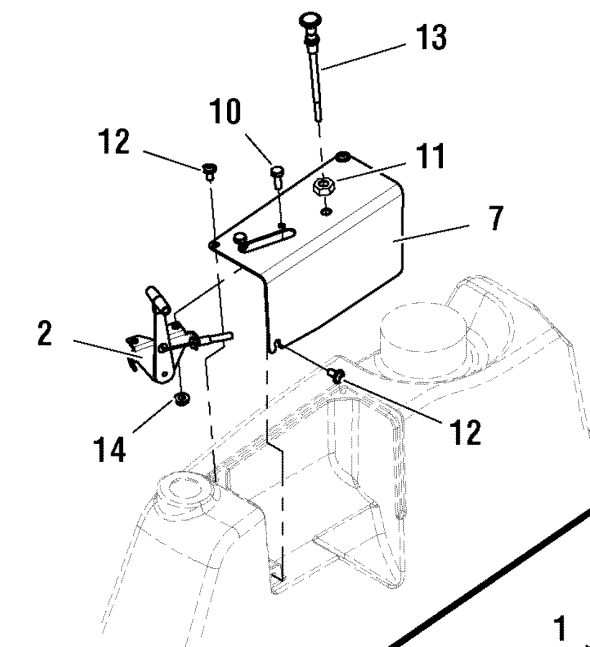
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Instrument Control Panel Group

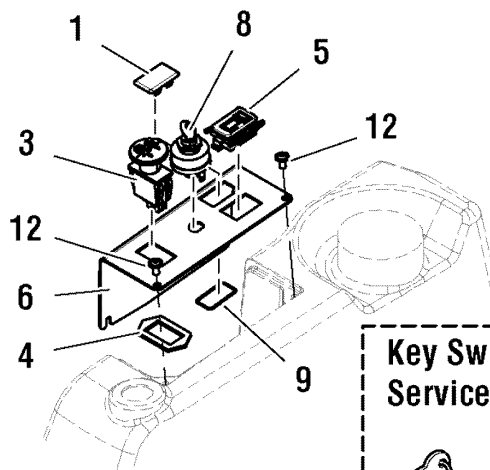
NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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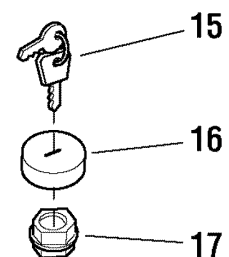
RIGHT-HAND SIDE



LEFT-HAND SIDE



Key Switch Service Parts



The above parts group applies to the following Mfg. Nos.:

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Instrument Control Panel Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1709188	1	PLUG, .820X1.44 HOLE, BLACK PLASTIC
2	5021887	1	CABLE, THROTTLE CONTROL, 45
3	5022180	1	SWITCH, BLADE ENGAGEMENT
4	5022222	1	RING, SWITCH RETAINER
5	5100996	1	HOUR METER, W/ SUPPRESSOR
6	5402918A	1	CONTROL PANEL, LEFT - BLK
7	5403274A	1	CONTROL PANEL, RIGHT - BLK
8	5020927	1	SWITCH, IGNITION, 6 POST (INCLUDES REF NOS 15-17)
9	5022269	1	O-RING, 7/8 ID X 1/16 W
10	5025010X5	2	BOLT, 1/4-20 X 5/8 GD5 YZ
11	5025309	1	NUT, 3/8-24 HEX JAM
12	5025487X4	6	BOLT, 1/4-20 X 1/2M ALLEN BUTTON HEAD YZ
13	5100185	1	CABLE, CHOKE CONTROL, 30.5" (INCLUDES REF NO 11)
14	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
15	5022789	1	KEY, IGNITION, MOLDED SET (SV)
16	5022790	1	COVER (SV)
17	5022791	1	PLASTIC NUT (SV)

Footnotes

The above parts group applies to the following Mfg. Nos.:

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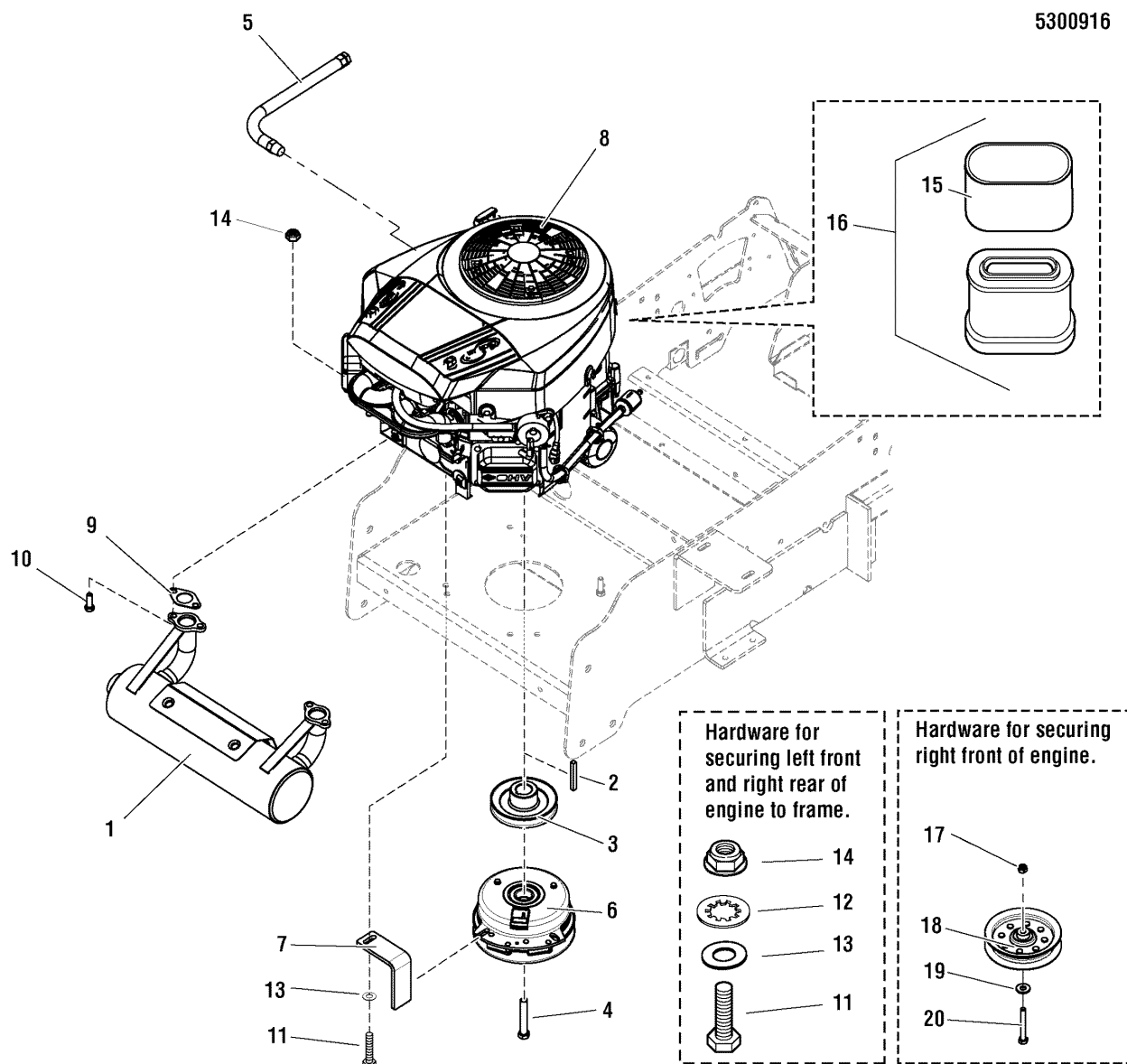
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Engine & PTO Group - 26 HP Briggs & Stratton

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5300916



The above parts group applies to the following Mfg. Nos.:

5900709

Engine & PTO Group - 26 HP Briggs & Stratton

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5100907	1	MUFFLER, B&S-ELS 22-26HP
2	5050407X8	1	KEY, 1/4 SQ. X 1.00
3	5101337	1	PULLEY, PUMP DRIVE, 4.857 OB X 1" BORE
4	5047632	1	BOLT, CRANKSHAFT, 7/16X2-3/4, PATCH YZ
5	5048681	1	HOSE, OIL DRAIN
6	5100915	1	CLUTCH, # 5219-34A, ELECTRIC, IS500Z
7	5403009D	1	ANCHOR, CLUTCH - RED
8	-	1	ENGINE-24HP B&S, ELS #44M777-0113-E1
9	690970	2	GASKET, EXHAUST
10	690341	4	SCREW, SEM HEX HEAD
11	5025011X14	3	BOLT, 5/16-18 X 1-3/4 GD5 YZ
12	5025188	2	WASHER, 5/16" INT. TOOTH LOCK
13	5025155	3	WASHER, 5/16 SAE
14	5025057	3	NUT, 5/16-18 HEX NYLON LOCK
15	792303	1	PRE CLEANER (SV)
16	792105	1	AIR CLEANER W/ PRE CLEANER (SV) (INCLUDES REF NO 15)
17	-	1	SEE PUMP DRIVE GROUP
18	-	1	SEE PUMP DRIVE GROUP
19	-	1	SEE PUMP DRIVE GROUP
20	-	1	SEE PUMP DRIVE GROUP

Footnotes

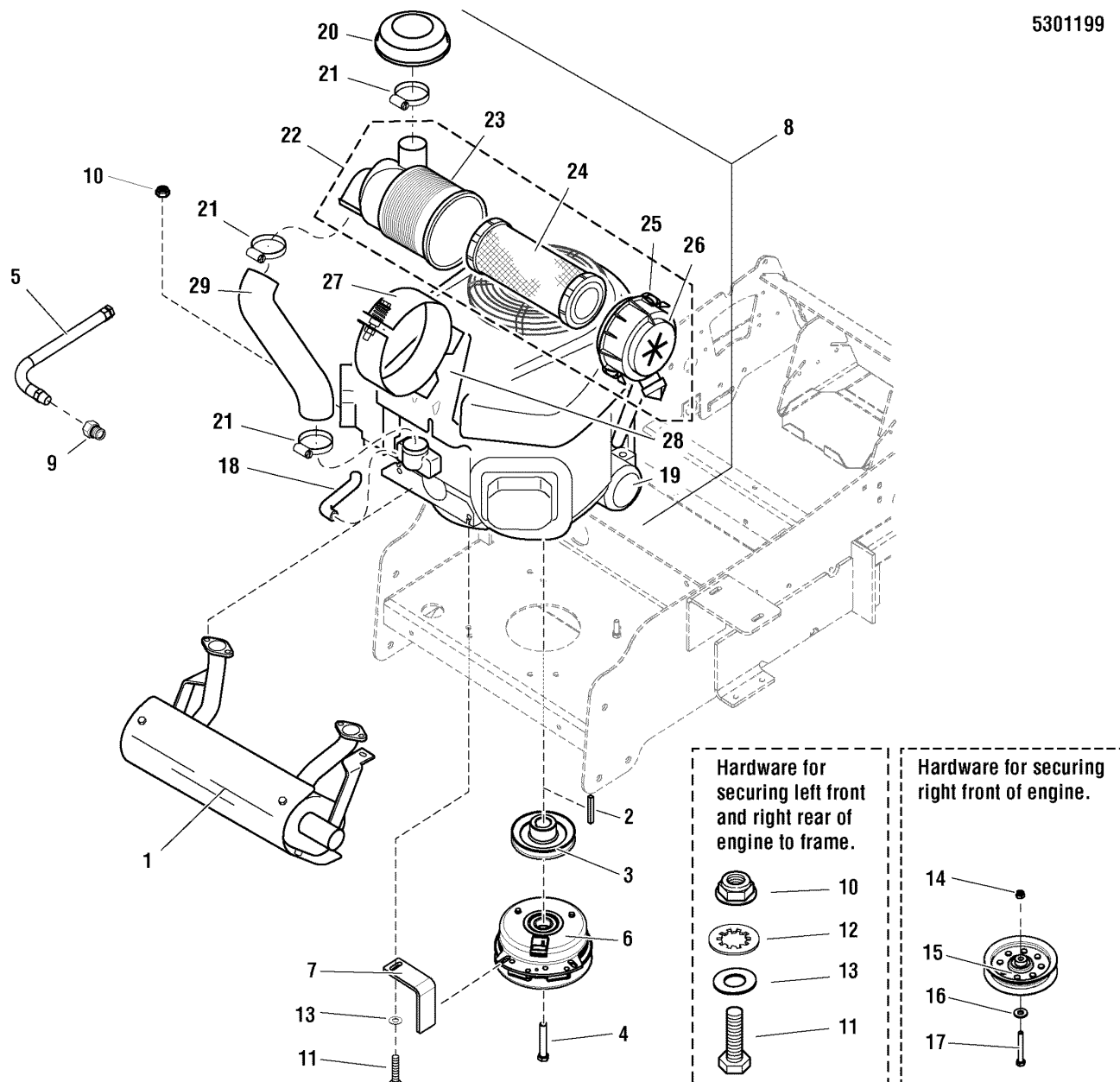
The above parts group applies to the following Mfg. Nos.:

5900709

Engine & PTO Group - 19 HP Kawasaki

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5301199



The above parts group applies to the following Mfg. Nos.:

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Engine & PTO Group - 19 HP Kawasaki

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5101125	1	MUFFLER, 19HP KAWASAKI
2	5050407X8	1	KEY, 1/4 SQ. X 1.00
3	5101338	1	PULLEY, PUMP DRIVE, 4.857 OB X 1-1/8
4	5045289	1	BOLT, CRANKSHAFT, 7/16"X2-1/2
5	5048681	1	HOSE, OIL DRAIN
6	5100084	1	CLUTCH,5218-134, WARNER
7	5403009D	1	ANCHOR, CLUTCH - RED
8	-	1	ENGINE, 19HP KAWASAKI #FV580V-CS35R
9	5022234	1	ADAPTER, OIL DRAIN
10	5025057	3	NUT, 5/16-18 HEX NYLON LOCK
11	5025011X14	3	BOLT, 5/16-18 X 1-3/4 GD5 YZ
12	5025188	2	WASHER, 5/16" INT. TOOTH LOCK
13	5025155	3	WASHER, 5/16 SAE
14	-	1	SEE PUMP DRIVE GROUP
15	-	1	SEE PUMP DRIVE GROUP
16	-	1	SEE PUMP DRIVE GROUP
17	-	1	SEE PUMP DRIVE GROUP
18	5023148	1	BREATHER TUBE
19	5021334X1	1	OIL FILTER (49065-2078) (SV)
20	5100255	1	RAIN COVER
21	5100256	3	CLAMP
22	5100257	1	AIR FILTER ASSEMBLY (INCLUDES REF NOS 23 - 26)
23	5023139	1	CASE, AIR FILTER
24	5100192	1	AIR FILTER, PRIMARY
25	5100259	2	CLAMP, CAP
26	5100260	1	CAP, FILTER CASE
27	5100262	1	CASE, BRACKET, COMPLETE
28	5100263	1	BRACKET PLATE
29	5100264	1	AIR INLET TUBE

Footnotes

The above parts group applies to the following Mfg. Nos.:

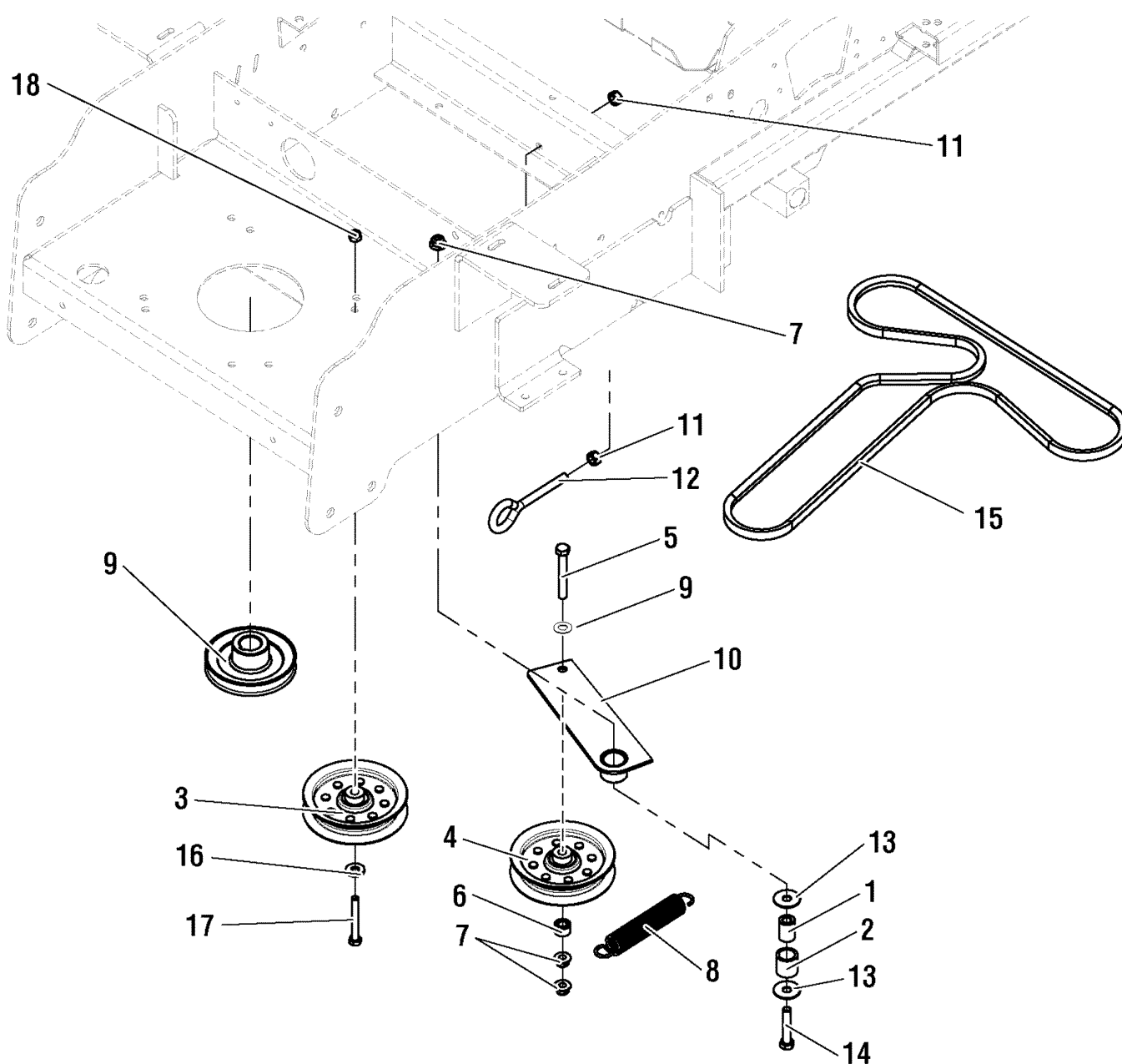
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Pump Drive Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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Pump Drive Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5042658	1	SPACER, .39 X .75 X 1.06
2	5020876B	1	BUSHING, BRASS, 3/4 X 1 X 1
3	5101379	1	PULLEY, IDLER, STATIONARY
4	5101380	1	PULLEY, IDLER, ADJUSTABLE
5	5025013X22	1	BOLT, 3/8-16 X 2-3/4" GD5 YZ
6	5047408	1	SPACER, .39 X .75 X .50
7	5025394	3	NUT, 3/8-16 HEX NYLOCK FLANGE
8	1715435	1	SPRING, EXTENSION, 1.00
9	5025156	1	WASHER, 3/8 SAE
10	5402919D	1	WELD, IDLER ARM, SNAPPER PRO - RED
11	5025034	2	NUT, 3/8-16 HEX
12	5023497	1	EYE BOLT, 3/8-16 X 5", 1 EYE
13	5025165	2	WASHER, 3/8 FENDER
14	5025013X16	1	BOLT, 3/8-16 X 2 GD5 YZ
15	5022173	1	BELT, # 7-5332
16	5025337	1	WASHER, 5/16 USS
17	5025011X20	1	BOLT, 5/16-18 X 2-1/2" GD5 YZ
18	5025057	1	NUT, 5/16-18 HEX NYLON LOCK

Footnotes

The above parts group applies to the following Mfg. Nos.:

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NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

This technical drawing is an exploded view of a mechanical assembly. The main components are:

- Chassis Frame:** The base structure, shown in dashed lines, with various mounting points and reinforcement ribs.
- Vertical Support Structure:** Located on the left, it includes a curved arm (19), a vertical plate (4), and a bracket (17) secured with a bolt (15) and a nut (25). A long rod (16) extends from this assembly towards the center.
- Engine/Pump Assembly:** Located at the bottom right, it features a fan (21), various gears (22, 23), and mounting brackets (2, 3, 24, 28). It is secured with multiple bolts (7, 8, 10, 11, 12, 27, 32, 33).
- Central Mounting:** A complex assembly of brackets (5, 9, 13, 14), rods (14), and bolts (5, 14, 15, 18, 25, 26, 27, 29, 32, 34) that connects the vertical support to the chassis and the engine assembly.

Callout **A** indicates a specific bolt location on the central mounting structure.

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Motion Control Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5022068	2	GRIP, FOAM, 3/4 ID, 16 LONG
2	5402862D	2	NEUTRAL LOCK, SNAPPER PRO 36-44
3	5402984D	2	SWITCH PLATE, MOTION CONTROLS
4	5047004	2	MOUNT, CONTROL ARM
5	5025127	16	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
6	5025011X8	4	BOLT, 5/16-18 X 1 GD5 YZ
7	5025154	12	WASHER, 1/4 SAE
8	5021146	2	BALL JOINT, 5/16-24, FEMALE
9	5025011X18	2	BOLT, 5/16-18 X 2-1/4" GD5 YZ
10	5046420	2	ROD, HYDRO LINKAGE
11	5402910D	2	PLATE, CONTROL TRANSAXLE - RED
12	5022628	2	BALL JOINT, 5/16-24, LH FEMALE
13	5100940	2	DAMPENER, CONTROL, #(P6709/P3610)
14	5100941	4	BALL STUD, 5/16 X .50, # PC-477-2)
15	5021098	2	BEARING, BRONZE FLANGE, 3/4
16	5101108	1	SHAFT, 3/4 X 19.52
17	5402913D	1	WELD, MOTION CONTROL, RH - RED
18	5402856D	1	WELD, MOTION CONTROL, LH - RED
19	5047055D	1	WELD, HANDLE MOTION CONTROL-LH
20	5047056D	1	WELD, HANDLE MOTION CONTROL-RH
21	5025015X6	2	BOLT, 7/16-14 X 3/4, GD 5 YZ
22	5025044	2	NUT, 7/16-14 HEX TOP LOCK
23	5025391	10	NUT, 1/4-20 HEX NYLOCK FLANGE
24	5025013X6	4	BOLT, 3/8-16 X 3/4 GD5 YZ
25	5010114	2	COLLAR, 3/4" SPLIT
26	5025013X14	4	BOLT, 3/8-16 X 1-3/4 GD5
27	5025057	4	NUT, 5/16-18 HEX NYLON LOCK
28	5025010X6	8	BOLT, 1/4-20 X 3/4 GD5 YZ
29	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
30	5025155	8	WASHER, 5/16 SAE
31	5025170	4	WASHER, 5/16 LOCK YZ
32	5025011X9	8	BOLT, 5/16-18 X 1-1/8 GD5
33	5023212	2	NUT, 5/16-24 HEX, LH
34	5025033	6	NUT, 5/16-24 HEX
35	5025010X5	6	BOLT, 1/4-20 X 5/8 GD5 YZ

Footnotes

The above parts group applies to the following Mfg. Nos.:

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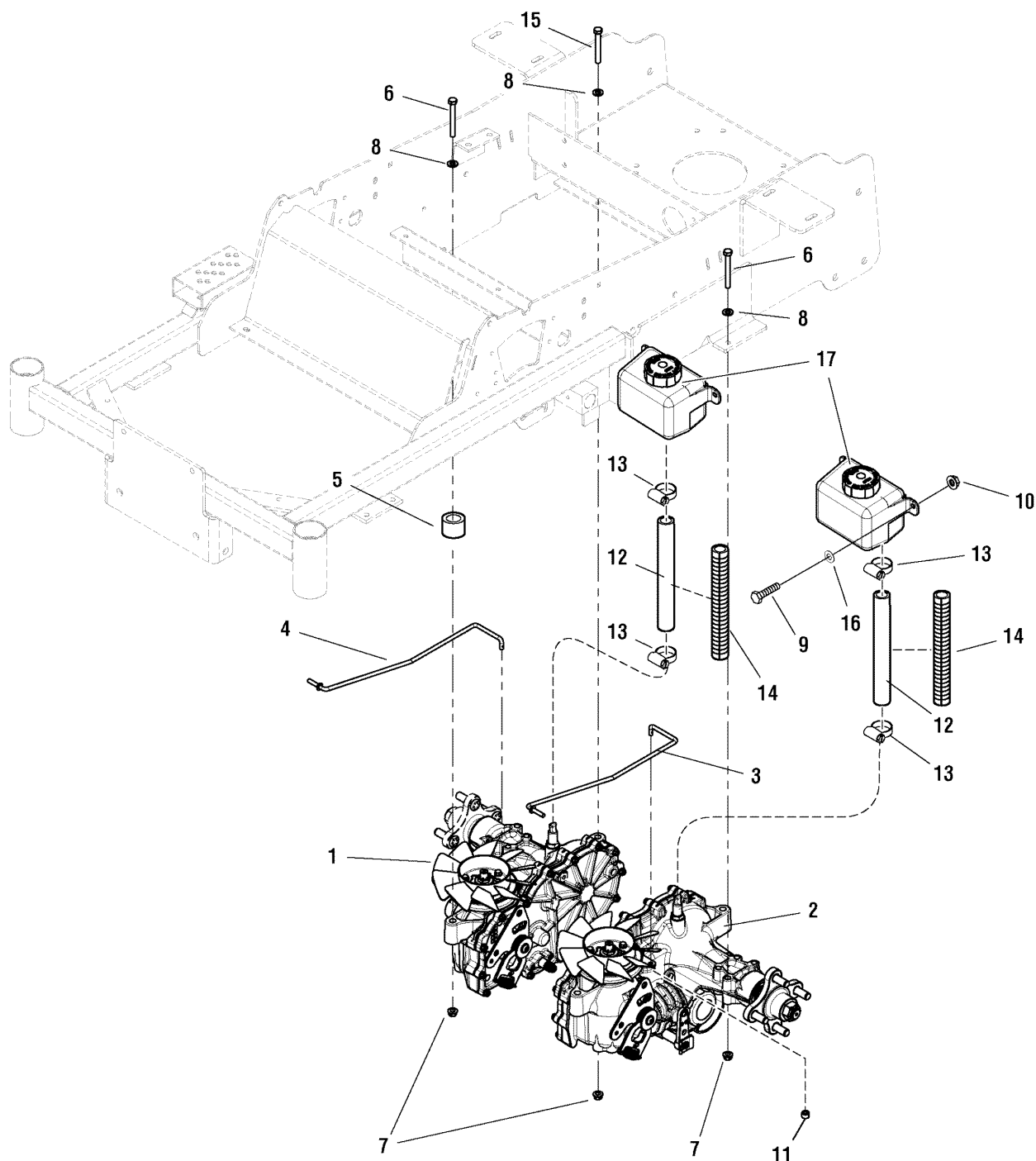
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Hydraulic Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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Hydraulic Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5101024	1	TRANSMISSION, RH HYDRO-GEAR
2	5101025	1	TRANSMISSION, LH, HYDRO-GEAR
3	5101138	1	5101138, ROD, DUMP CONTROL LH
4	5101139	1	ROD, DUMP CONTROL, RH
5	5047408	2	SPACER, .39 X .75 X .50
6	5025011X22	6	BOLT, 5/16-18 X 2-3/4, GD 5, YZ
7	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE
8	5025155	8	WASHER, 5/16 SAE
9	5025010X6	2	BOLT, 1/4-20 X 3/4 GD5 YZ
10	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
11	5020047	2	COLLAR, 5/16" SET
12	5050857X13	2	HOSE, 1/2" PUSH-ON, 13" LONG
13	5025474	4	CLAMP, HOSE, .75 FREE DIA.
14	5050862x11	2	WIRE LOOM, 3/4" ID, 11" LONG
15	5025011X18	2	BOLT, 5/16-18 X 2-1/4" GD5 YZ
16	5025154	2	WASHER, 1/4 SAE
17	5100473	2	TANK, OIL, 350ML WITH CAP
18	5021029	2	CABLE TIE, 12"

Footnotes

The above parts group applies to the following Mfg. Nos.:

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NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

This diagram shows an exploded view of a mechanical assembly. The main component is a large, rectangular metal frame (1) with various mounting points. A long, thin metal rod (2) is shown passing through the frame. A small, cylindrical component (3) is shown being inserted into the frame. A long, thin metal rod (4) is shown passing through the frame. A small, cylindrical component (5) is shown being inserted into the frame. A long, thin metal rod (6) is shown passing through the frame. A small, cylindrical component (7) is shown being inserted into the frame. A long, thin metal rod (8) is shown passing through the frame. A small, cylindrical component (9) is shown being inserted into the frame. A long, thin metal rod (10) is shown passing through the frame. A small, cylindrical component (11) is shown being inserted into the frame. A long, thin metal rod (12) is shown passing through the frame. A small, cylindrical component (13) is shown being inserted into the frame. A long, thin metal rod (14) is shown passing through the frame. A small, cylindrical component (15) is shown being inserted into the frame. A long, thin metal rod (16) is shown passing through the frame. A small, cylindrical component (17) is shown being inserted into the frame. A long, thin metal rod (18) is shown passing through the frame. A small, cylindrical component (19) is shown being inserted into the frame. A long, thin metal rod (20) is shown passing through the frame.

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Parking Brake Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025010X5	4	BOLT, 1/4-20 X 5/8 GD5 YZ
2	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
3	5025013X18	2	BOLT, 3/8-16 X 2-1/4 GD5 YZ
4	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
5	5025213X8	1	PIN, CLEVIS, 5/16 X 1 YZ
6	5025211	1	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ
7	5020047	5	COLLAR, 5/16" SET
8	5021102	2	SPRING, COMPRESSION
9	5010213	1	SPRING; CLUTCH HANDLE
10	5025337	2	WASHER, 5/16 USS
11	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
12	5023216	1	NUT, 5/16-24 JAM
13	5101058	2	ROD, BRAKE CTRL, LOWER - CONZ
14	5101123	2	BEARING, 1/2" FLANGED
15	5044992	2	SPACER, .38 X .50 X 1.56
16	5402914D	1	WELD, BRAKE SHAFT - RED
17	5023323	1	CLEVIS, 5/16-24, STEEL
18	5101116	1	ROD, PULLER ROD
19	5402903D	1	WELD, BRAKE SHAFT, HANDLE - RED
20	5025510	1	GRIP, FOAM, 1/4" X 1

Footnotes

The above parts group applies to the following Mfg. Nos.:

5900683

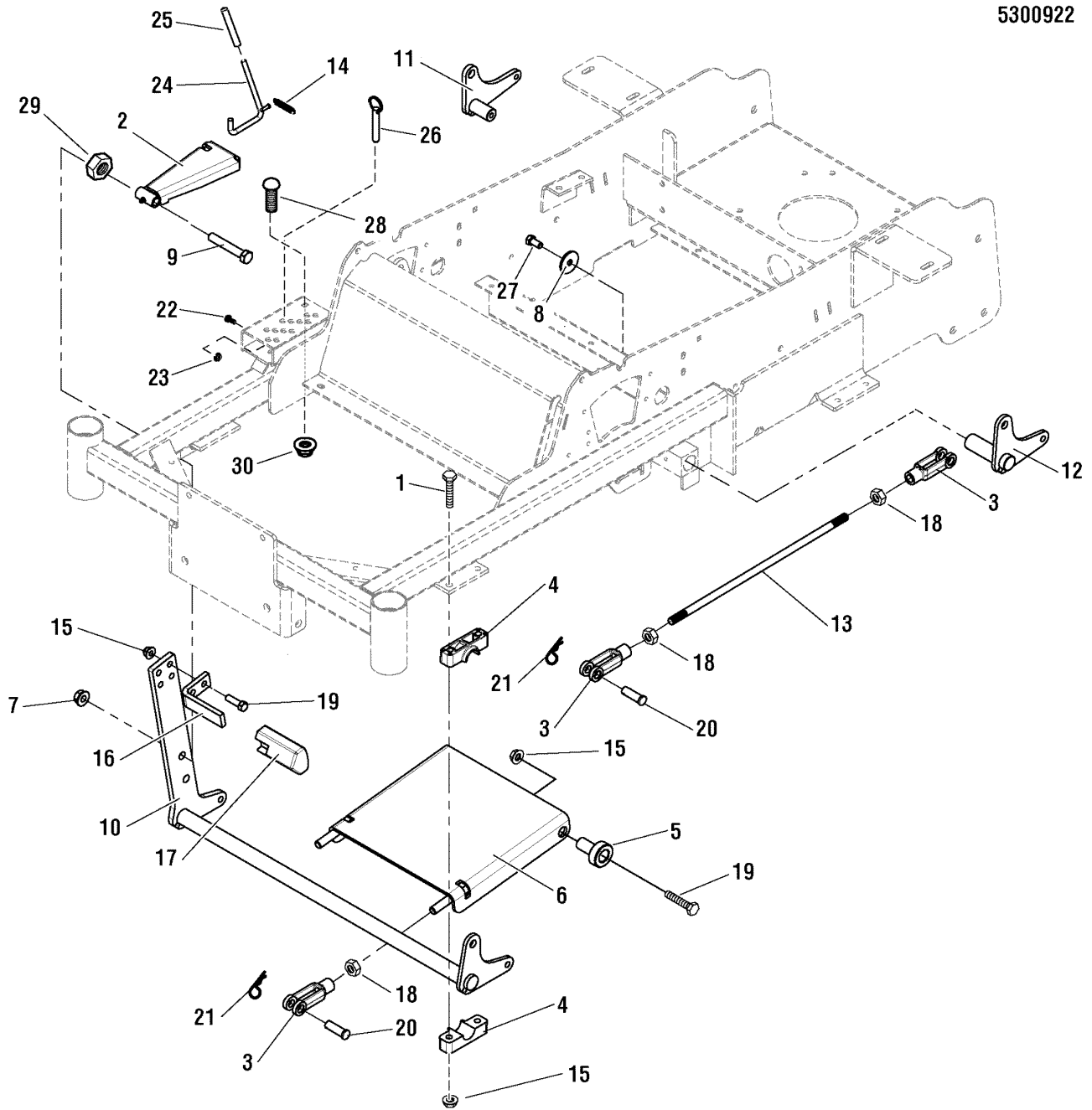
5900709

5900734

Deck Lift Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5300922



The above parts group applies to the following Mfg. Nos.:

5900683

5900709

5900734

Deck Lift Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025013X12	4	BOLT, 3/8-16 X 1-1/2 GD5 YZ
2	5403016D	1	WELD, DECK HEIGHT ADJUSTMENT - RED
3	5023174	6	CLEVIS, 1/2-20, STEEL
4	5100634	4	PIVOT BLOCK, PLASTIC
5	5023257	2	BUSHING, .38 X .88 X .73
6	5402970D	1	WELD, PULLER BAR - RED
7	5025396	1	NUT, 1/2-13 HEX NYLOCK FLANGE
8	5100548	2	WASHER, .390 X 1.50 X .109, YZ
9	5025017X24	1	BOLT, 1/2-13 X 3 GD5
10	5402900D	1	WELD, FRONT DECK PIVOT - RED
11	5402956D	1	WELD, PIVOT DECK LIFT, RH - RED
12	5402957D	1	WELD, PIVOT, DECK LIFT, LH - RED
13	5101117	2	ROD, DECK LIFT, SNAPPER PRO
14	5022967	1	SPRING, RETURN
15	5025394	8	NUT, 3/8-16 HEX NYLOCK FLANGE
16	5061569D	1	PEDAL, FOOT - RED
17	1715834	1	RUBBER, FOOT PEDAL
18	5025089	6	NUT, 1/2-20 HEX JAM
19	5025013X10	4	BOLT, 3/8-16 X 1-1/4 GD5 YZ
20	5025479	6	PIN, CLEVIS, 1/2 X 1.36" SAE STANDARD
21	5025203X6	6	PIN, COTTER, 1/8 X 3/4
22	5025010X5	2	BOLT, 1/4-20 X 5/8", GD5 YZ
23	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
24	5403815D	1	WELD, DECK TRANSPORT LEVER - RED
25	5023198	1	COVER, VINYL HANDLE
26	5101279	1	HITCH PIN, 3/8 X 2-1/2
27	5025443	2	BOLT, 3/8-16 X 3/4, GD5, YZ WITH PATCH
28	5025146X14	1	BOLT, 3/8-16 X 1-3/4", CARRIAGE
29	5025392	1	NUT, 5/16-18 HEX NYLOCK FLANGE
30	5025038	1	NUT, 1/2-13 HEX

Footnotes

The above parts group applies to the following Mfg. Nos.:

5900683

5900709

5900734

Transmission SERVICE PARTS

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

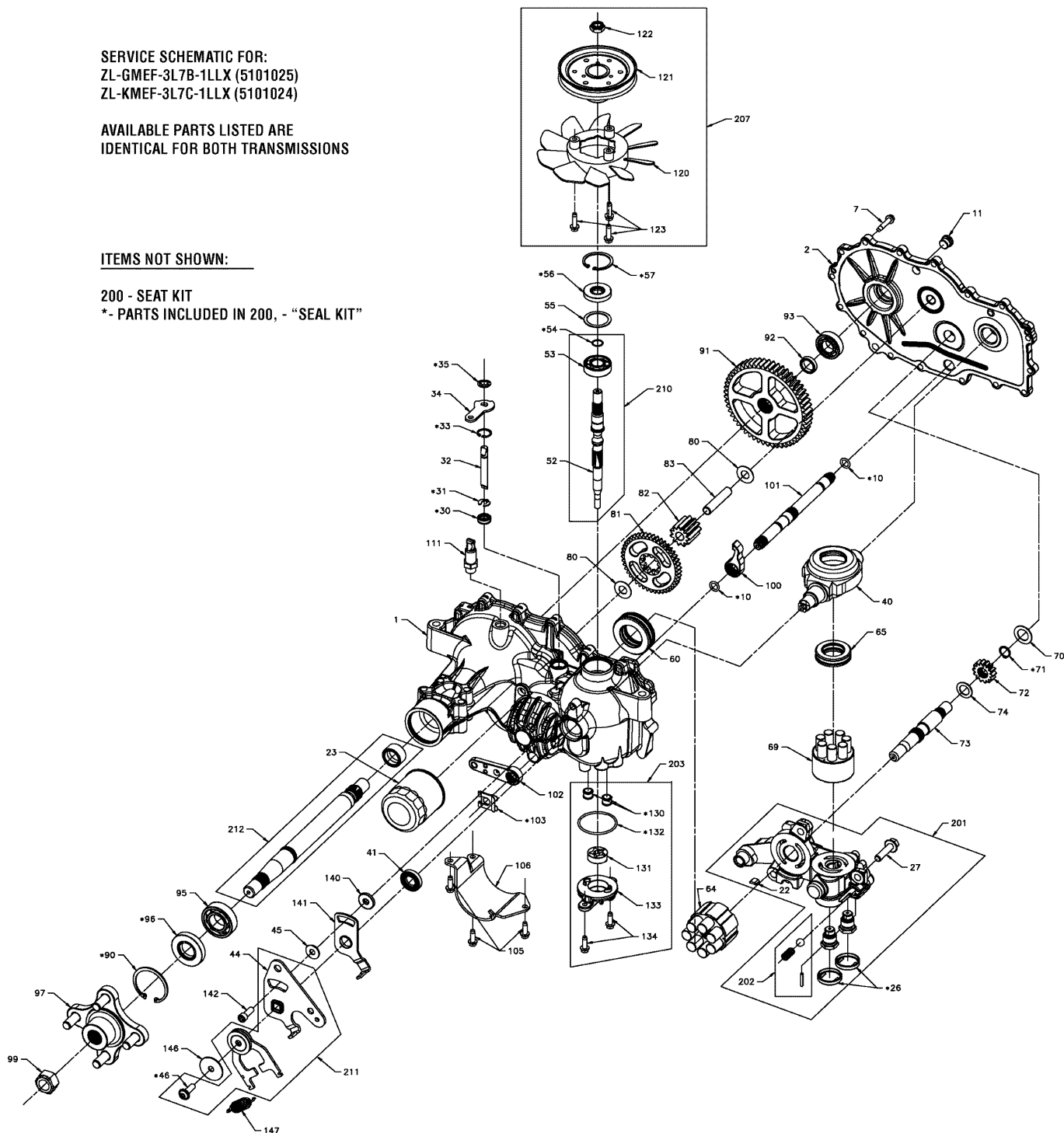
SERVICE SCHEMATIC FOR:
ZL-GMEF-3L7B-1LLX (5101025)
ZL-KMEF-3L7C-1LLX (5101024)

AVAILABLE PARTS LISTED ARE
IDENTICAL FOR BOTH TRANSMISSIONS

ITEMS NOT SHOWN:

200 - SEAL KIT

* - PARTS INCLUDED IN 200, - "SEAL KIT"



The above parts group applies to the following Mfg. Nos.:

5900683
5900709
5900734

Transmission SERVICE PARTS

REF NO.	PART NO.	QTY.	DESCRIPTION
23	5101026X1	1	OIL FILTER
41	5101026X2	1	SEAL, LIP, 18 X 32 X7
56	5101026X3	1	SEAL, LIP, 17 X 40 X 7
57	5101026X4	1	RING, RET 2.06 INT
95	5101026X5	1	BEARING BALL, 1.0 X 52 X 15 OPEN 6205M
120	5101026X6	1	FAN, 7", 10 BLADE
121	5101026X7	1	PULLEY, 4.5 INCH
200	5101026X8	1	KIT SEAL
210	5101026X9	1	KIT, INPUT SHAFT

Footnotes

The above parts group applies to the following Mfg. Nos.:

5900683

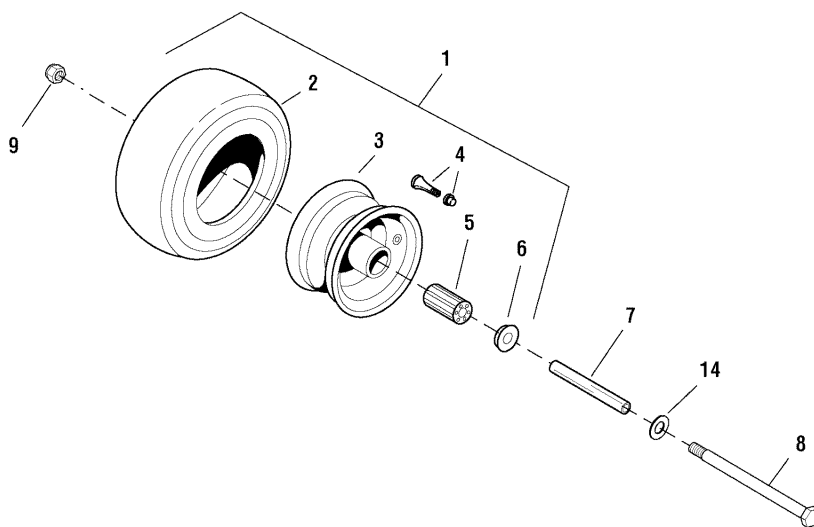
5900709

5900734

Wheel & Tire Group

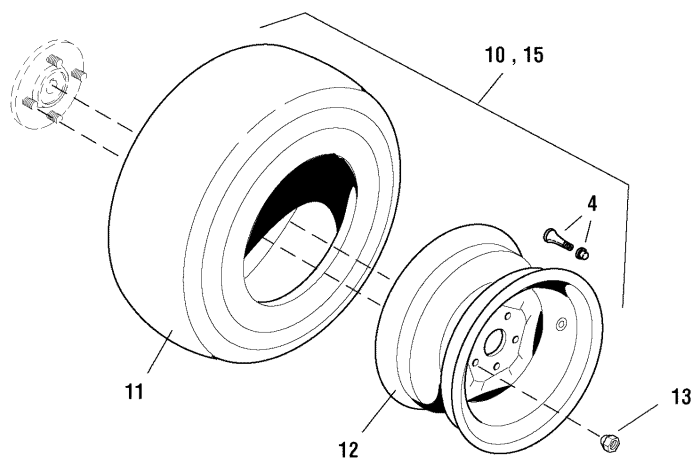
NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

Front Wheels & Tires



Inflate to 40 PSI (2,76 bar)

Rear Wheels & Tires



Inflate to 15 PSI (1,03 bar)

The above parts group applies to the following Mfg. Nos.:

5900683
5900709
5900734

Wheel & Tire Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5022433S	2	WHEEL, CASTER, 11X4.0-5 SILVER (INCLUDES REF NOS 2 - 6)
2	5022433X1	2	TIRE, FRONT, 11 X 4.0 - 5 (SV)
3	5022433X2	2	WHEEL ASSEMBLY, COMPLETE (SV) (INCLUDES REF NOS 4 & 5)
4	2172353	2	VALVE STEM & CAP ASSEMBLY (SV)
5	5022579	4	BEARING, ROLLER (SV)
6	5021043	4	BEARING, RETAINER (SV)
7	5045996	2	CASTER AXLE DDSH
8	5025017X52	2	BOLT, 1/2-13 X 6-1/2 GD8 YZ
9	5025396	2	NUT, 1/2-13 HEX NYLOCK FLANGE
10	5101375	2	TIRE ASM, REAR, 20 X 10.0 X 10 (48" Models Only) (INCLUDES REF NOS 11 & 12)
11	5101345X1	2	TIRE, REAR, 20 X 10.0 X 10 (48" Models Only)
12	5023369X1	2	WHEEL ASSEMBLY (SV) (48" Models Only)
13	5020601	8	NUT, 1/2-20, FOR WHEEL BOLT SILVER
14	5025158	2	WASHER, 1/2 SAE
15	5101068	2	TIRE ASM, 20 X 7 - 10, TURF MASTER (36" Models Only)

Footnotes

The above parts group applies to the following Mfg. Nos.:

5900683

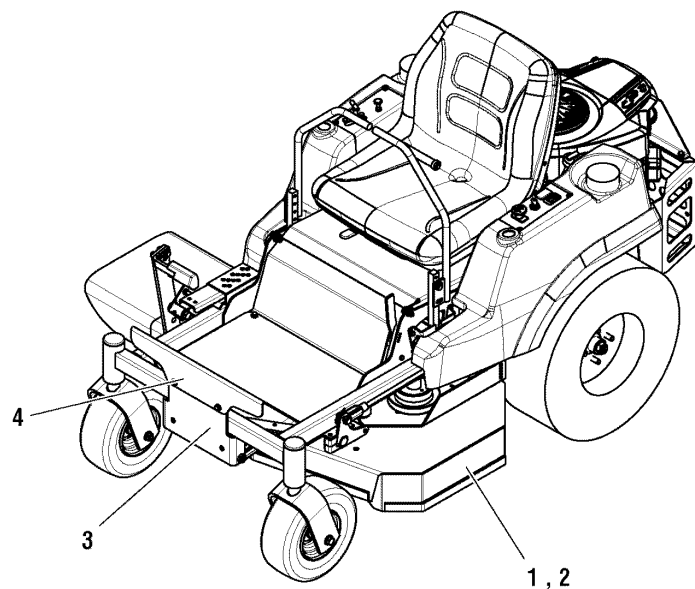
5900709

5900734

Decal Group - Brand & Model

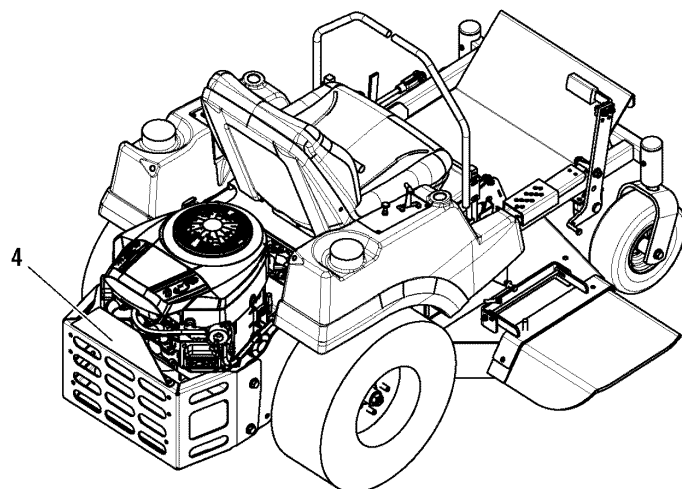
NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5301016
5301201



1 ——— 36"

2 ——— 48"



4



The above parts group applies to the following Mfg. Nos.:

5900683
5900709
5900734

Decal Group - Brand & Model

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5101322	1	DECAL, 36 (36" MODELS ONLY)
2	5022811	1	DECAL, 48 (48" MODELS ONLY)
3	5101321	1	DECAL, S50X (48" MODELS ONLY)
4	5101319	2	DECAL, FRONT, SNAPPER PRO

Footnotes

The above parts group applies to the following Mfg. Nos.:

5900683

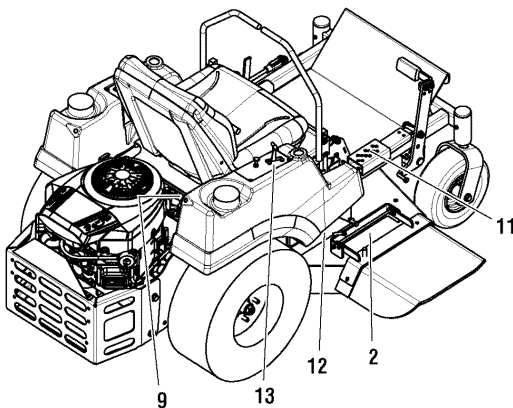
5900709

5900734

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

This diagram illustrates the rear assembly of the riding lawn mower, showing the seat, engine, and rear wheel components. The numbered callouts are as follows:

- 1: Rear suspension arm
- 2: Rear wheel
- 3: Rear axle
- 4: Rear seat
- 5: Rear engine
- 6: Rear deck
- 7: Rear blade
- 8: Rear wheel hub
- 9: Rear wheel nut
- 10: Rear wheel washer
- 11: Rear wheel lock
- 12: Rear wheel lock nut



5900683
5900709
5900734

Decal Group - Safety & Operation

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5101314	1	DECAL, MAIN, S50X
2	5101292	1	DECAL, DANGER, MOWER DISCHARGE, 8.75" X 2.13"
3	5100088	1	DECAL, DANGER, MOWER
4	5100708	1	DECAL, DANGER, FIRE
5	5100709	1	DECAL, DANGER, FIRE (SP)
6	5046503	1	DECAL, FUSE LOCATION (LOCATED UNDER SEAT PLATE)
7	5100957	1	DECAL, HYDRAULIC OIL, SAE 20W50 (LOCATED UNDER SEAT PLATE)
8	5048970	1	DECAL, IGNITION SWITCH
9	5100342	1	DECAL, FUEL VALVE (LOCATED ON BRACKET BEHIND RH SIDE OF SEAT)
10	5101316	1	DECAL, BELT & BLADE, S50X (LOCATED UNDER SEAT PLATE)
11	5101315	1	DECAL, CUT HEIGHT, S50X
12	5101062	2	DECAL, TRANSAXLE RELEASE (LOCATED ON LH & RH DECK GUARDS)
13	5100280	1	DECAL, THROTTLE CONTROL

Footnotes

The above parts group applies to the following Mfg. Nos.:

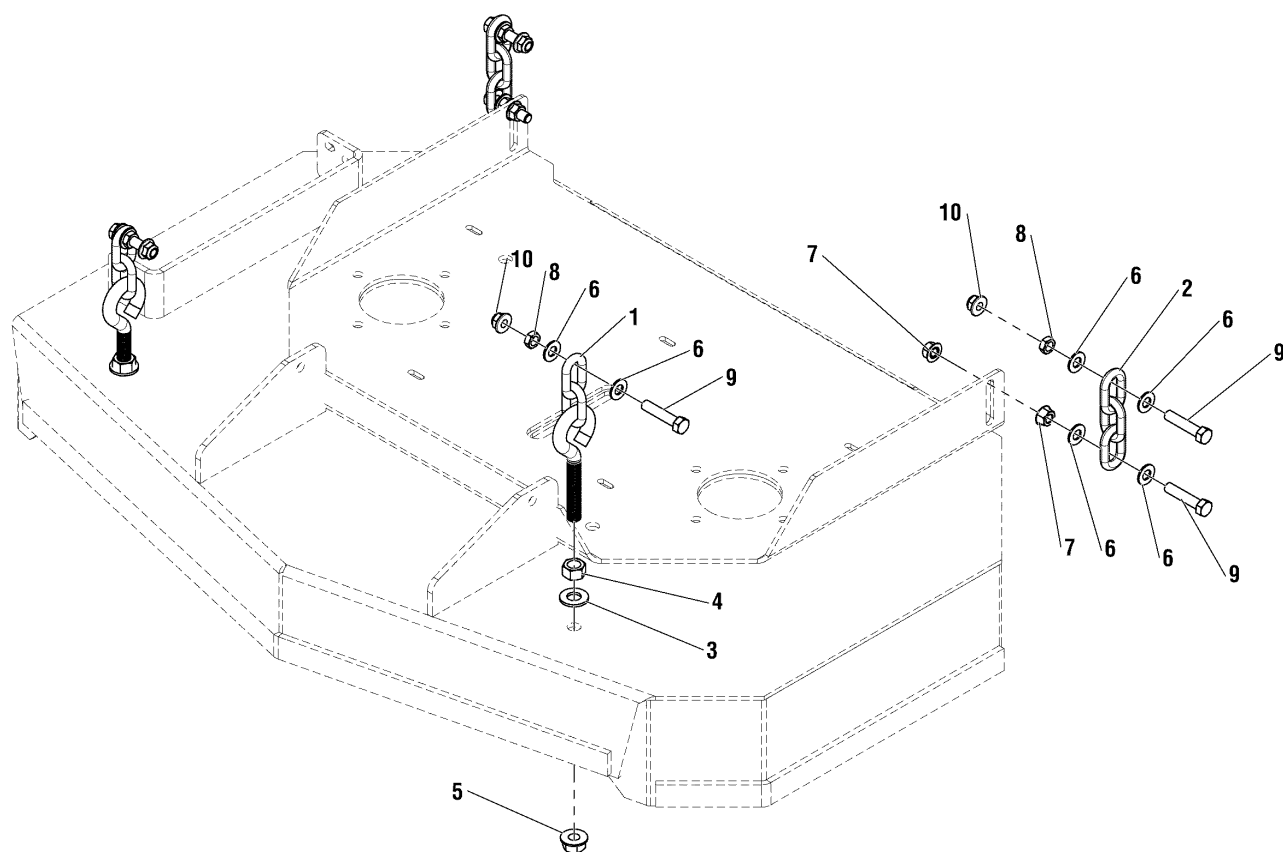
5900683

5900709

5900734

36" & 48" Mower Deck - Hanger Chains

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

5900683

5900709

5900734

36" & 48" Mower Deck - Hanger Chains

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5047503	2	HANGER, FRONT DECK - 2 LINKS
2	5050878X3	2	CHAIN, 5/16" GD30, 3 LINKS
3	5025158	2	WASHER, 1/2 SAE
4	5025038	2	NUT, 1/2-13 HEX
5	5025396	2	NUT, 1/2-13 HEX NYLOCK FLANGE
6	5025156	12	WASHER 3/8 SAE
7	5025128	4	NUT, 3/8-16 HEX SERRATED FLANGE
8	5025084	4	NUT, 3/8-16 HEX JAM
9	5025013X14	6	BOLT, 3/8-16 X 1-3/4 GD5
10	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE

Footnotes

The above parts group applies to the following Mfg. Nos.:

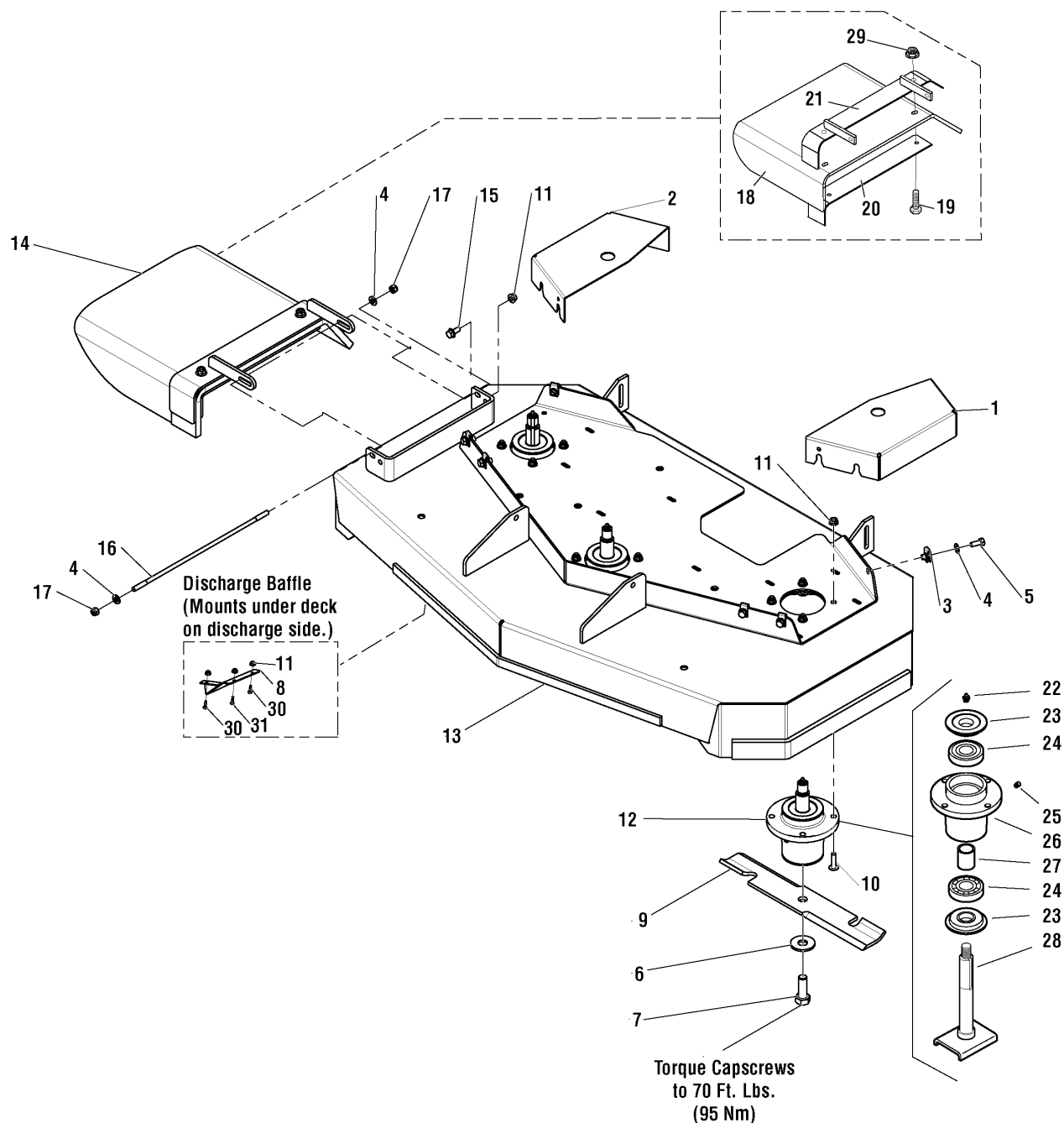
5900683

5900709

5900734

48" Mower Deck - Housing, Covers, Spindles & Blades

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

5900709
5900734

48" Mower Deck - Housing, Covers, Spindles & Blades

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5403532D	1	GUARD, 48" MOWER DECK, LH
2	5403531D	1	GUARD, 48" MOWER DECK, RH
3	5022308	6	BODY CLIP 5/16-18 X 1/2" DEEP
4	5025155	8	WASHER, 5/16 SAE
5	5025011X6	6	BOLT, 5/16-18 X 3/4 GD5
6	5025159	3	WASHER, 5/8 USS
7	5025320X14	3	BOLT, 5/8-11 X 1-3/4 GR8
8	5401271D	1	WELD, DISCHARGE BAFFLE, 48"
9	5020843	3	BLADE, 16.25"
10	5023156	15	BOLT, 5/16-18 X 1-1/4" FLANGE
11	5025392	12	NUT, 5/16-18 HEX NYLOCK FLANGE
12	5061095	3	ASSM, SPINDLE, LOW PROFILE
13	-	1	DECK SHELL W/ DECALS 48" DECK, S50X
14	5600088	1	KIT, CHUTE DISCHARGE (SV) (INCLUDES REF NOS. 18 - 21, & 29)
15	5025411	1	BOLT, 5/16-18 X 3/4" FLANGE
16	5042555	1	ROD, BRAKE LINKAGE
17	5025045	2	NUT 5/16-24 HEX NYLON LOCK
18	5101323	1	CHUTE, RUBBER
19	5025013X12	2	BOLT, 3/8-16 X 1-1/2 GD5 YZ
20	5403152D	1	CHUTE, SUPPORT
21	5403541D	1	WELD, CHUTE MOUNT
22	5023329	2	GREASE FITTING (SV)
23	5049793	4	TRASH SHIELD (SV)
24	5023330	4	BEARING (SV)
25	5023296	2	RELIEF VALVE (SV)
26	5061097	2	SPINDLE HOUSING (SV)
27	5061099	2	SPACER, 1.00 x 1.25 x 1.75 (SV)
28	5061137	2	SPINDLE SHAFT w/ SADDLE (SV)
29	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
30	5025145X6	2	BOLT, 5/16"-18 CARRIAGE, 3/4"
31	5025145X8	1	BOLT, 5/16"-18 CARRIAGE, 1"

Footnotes

The above parts group applies to the following Mfg. Nos.:

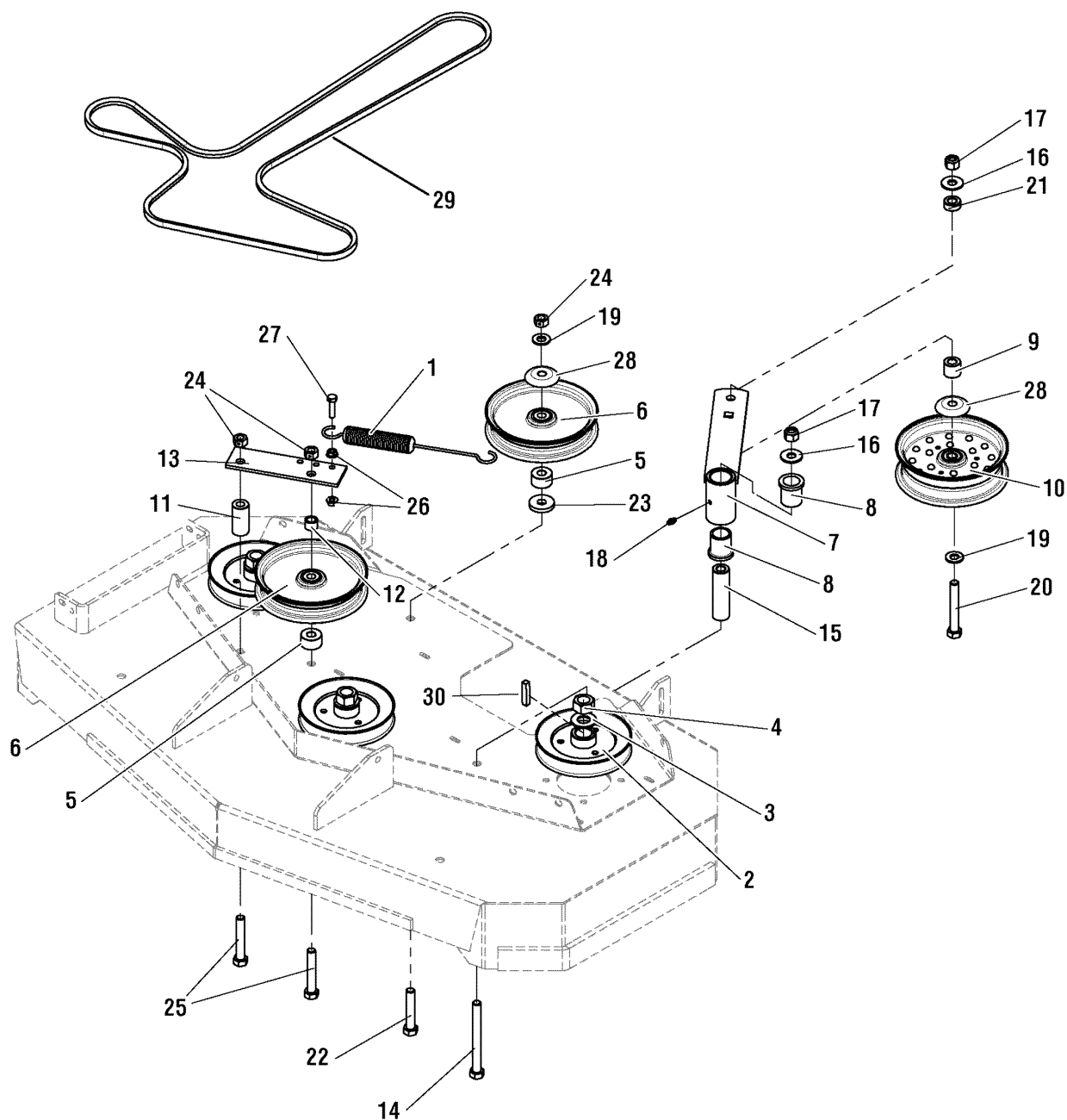
5900709

5900734

48" Mower Deck - Pulleys, Belts & Idler Arm Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5300930



The above parts group applies to the following Mfg. Nos.:

5900709

5900734

48" Mower Deck - Pulleys, Belts & Idler Arm Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5023340	1	SPRING, EXTENSION, SWIVEL END
2	5023175	3	PULLEY, 5.72., 48 DECK
3	5025406	3	WASHER, 3/4 BELLEVILLE
4	5025405	3	NUT, 3/4-16 HEX
5	5047142	2	SPACER, .52 X 1.25 X .70
6	5021976	2	PULLEY, IDLER 6-3/4
7	5045106D	1	WELD, IDLER ARM - RED - 5401621D (SV) (INCLUDES REF NOS 8 & 18)
8	5021541	2	BUSHING, FLANGE
9	5044673	1	SPACER, .52 X 1.00 X .88
10	5100529	1	PULLEY, IDLER, 6.75 OD X 1.62 FACE
11	5043607	1	SPACER, .50 X 1.00 X 2.00
12	5047027	1	SPACER, .51 X .75 X .56
13	5049874D	1	ANCHOR, SPRING - RED
14	5025017X40	1	BOLT, 1/2-13 X 5 GD5 YZ
15	5045022	1	SPACER, .52 X 1.00 X 3.50
16	5025150	2	WASHER, 1/2 USS
17	5025056	2	NUT, 1/2-13 HEX NYLON LOCK
18	5020095	1	GREASE FITTING, 1/4-28 STRAIGHT
19	5025158	1	WASHER, 1/2 SAE
20	5025017X28	1	BOLT, 1/2-13 X 3-1/2 GD5
21	5045023	1	SPACER, .52 X 1.00 X .44
22	5025017X22	1	BOLT, 1/2-13 X 2-3/4 GD5
23	5044913	1	WASHER, .53 X 1.50 X .25
24	5025332	3	NUT, 1/2-13 HEX SIDE LOCK
25	5025017X24	2	BOLT, 1/2-13 X 3 GD5
26	5025127	2	NUT, 5/16-18 HEX SERRATED FLANGE (SMALL)
27	5025011X10	1	BOLT, 5/16-18 X 1-1/4 GD5 YZ
28	5101103	3	SHIELD, PULLEY BEARING
29	5101301	1	BELT, 48" DECK DRIVE (48" MOWER DECK MODELS ONLY)
30	5050407X5	3	KEY, 1/4 SQ. X 1-1/4

Footnotes

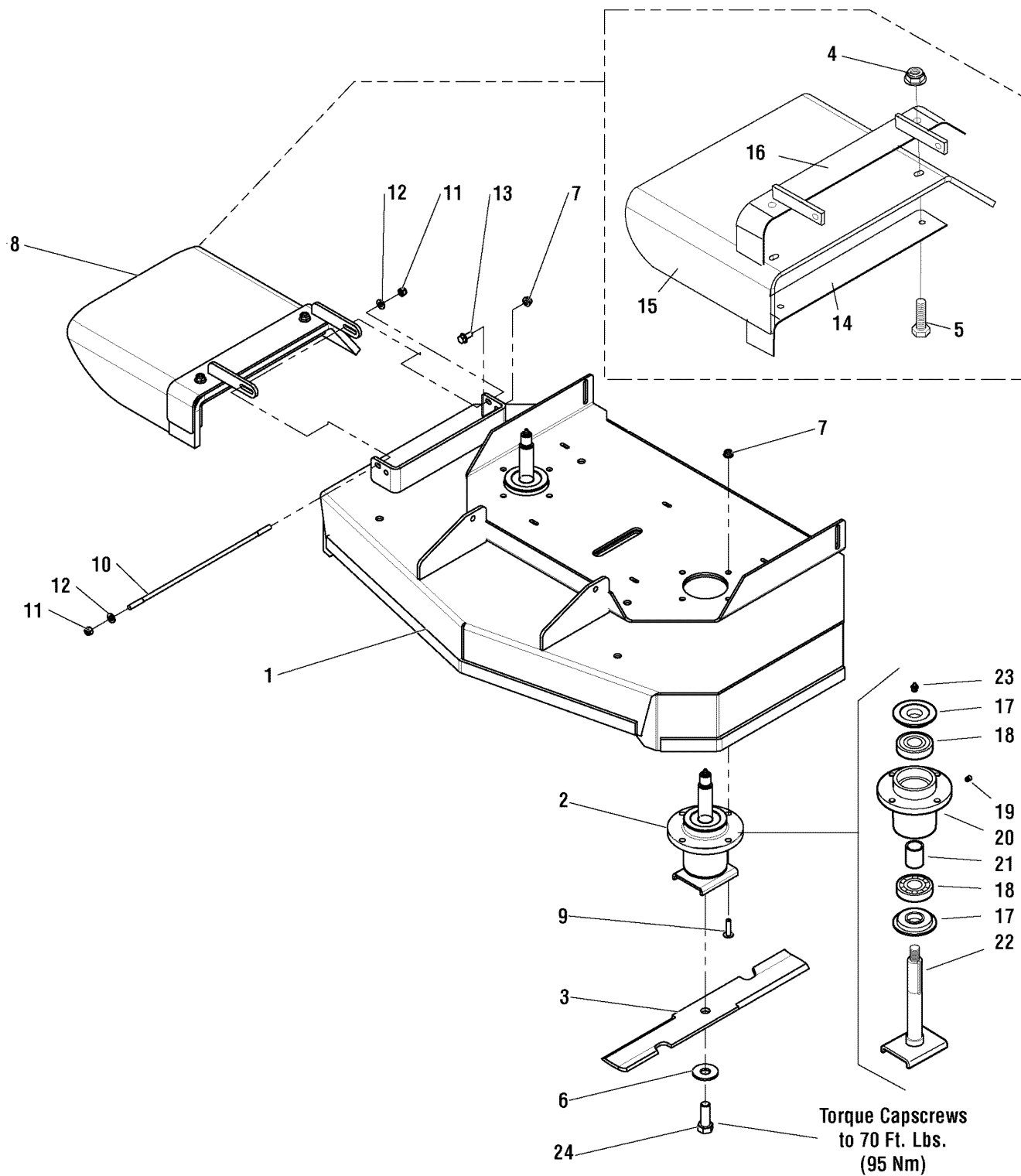
The above parts group applies to the following Mfg. Nos.:

5900709

5900734

36" Mower Deck - Housing, Covers, Spindles & Blades

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:
5900683

36" Mower Deck - Housing, Covers, Spindles & Blades

REF NO.	PART NO.	QTY.	DESCRIPTION
1	-	1	DECK SHELL W/ DECALS, 36" DECK, S50X
2	5061175	2	ASSM, SPINDLE, BLADE SADDLE (INCLUDES REF NOS. 17 - 23)
3	5021227	2	BLADE, 18.0
4	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
5	5025013X12	2	BOLT, 3/8-16 X 1-1/2 GD5 YZ
6	5025159	2	WASHER, 5/8 USS
7	5025392	9	NUT, 5/16-18 HEX NYLOCK FLANGE
8	5600088	1	KIT, CHUTE DISCHARGE (SV) (INCLUDES REF NOS 4, 5, 14 - 16)
9	5023156	8	BOLT, 5/16-18 X 1-1/4" FLANGE
10	5042555	1	ROD, BRAKE LINKAGE
11	5025045	2	NUT 5/16-24 HEX NYLON LOCK
12	5025155	2	WASHER, 5/16 SAE
13	5025411	1	BOLT, 5/16-18 X 3/4" FLANGE
14	5403152D	1	CHUTE, SUPPORT
15	5101323	1	CHUTE, RUBBER
16	5403541D	1	WELD, CHUTE MOUNT
17	5049793	4	TRASH SHIELD (SV)
18	5023330	4	BEARING (SV)
19	5023296	2	RELIEF VALVE (SV)
20	5061097	2	SPINDLE HOUSING (SV)
21	5061099	2	SPACER, 1.00 x 1.25 x 1.75 (SV)
22	5061137	2	SPINDLE SHAFT w/ SADDLE (SV)
23	5023329	2	GREASE FITTING (SV)
24	5025320X14	2	BOLT, 5/8-11 X 1-3/4" GD5

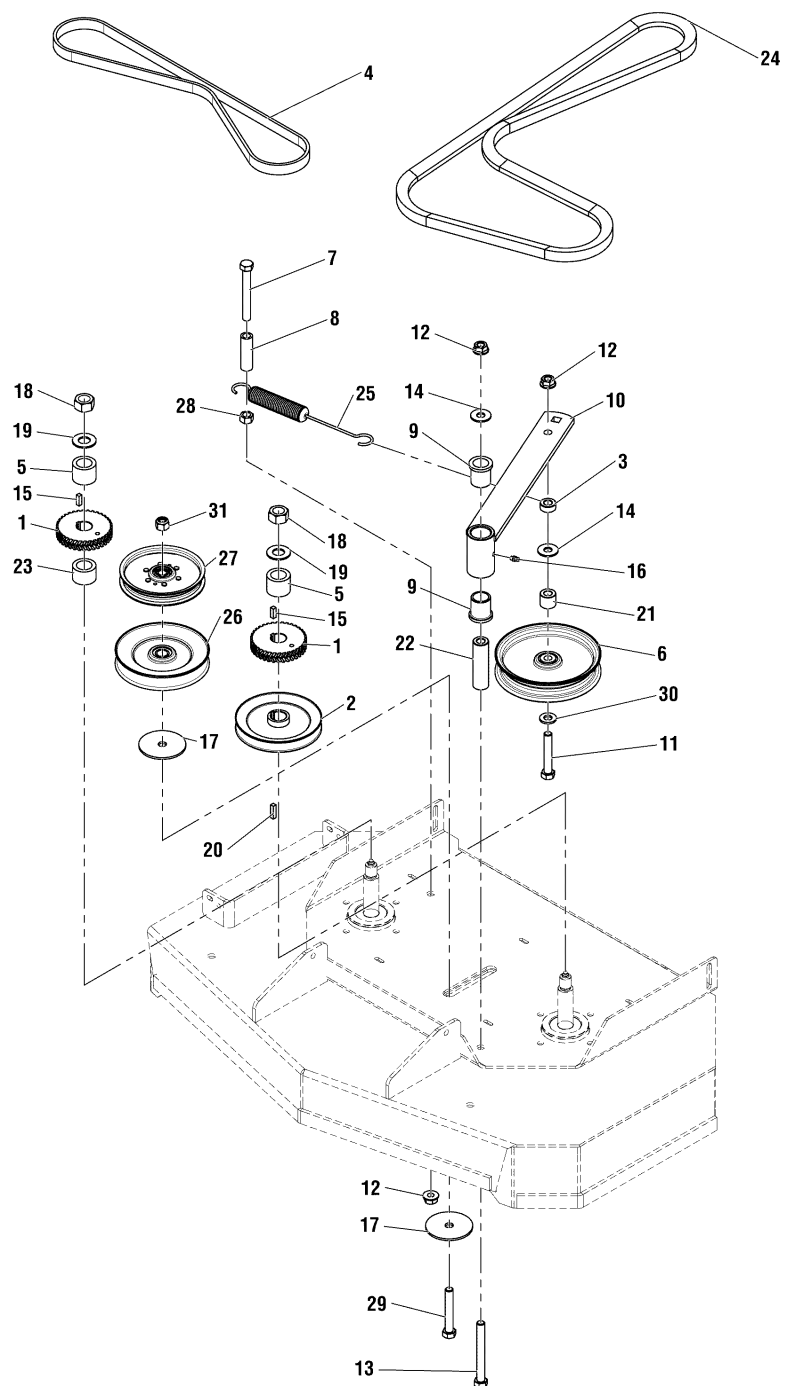
Footnotes

The above parts group applies to the following Mfg. Nos.:

5900683

36" Mower Deck - Pulleys, Belt & Idler Arm

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:
5900683

36" Mower Deck - Pulleys, Belt & Idler Arm

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5048977	2	36T EAGLE PD SPROCKET
2	5047638	1	PULLY, SPINDLE
3	5045023	1	SPACER, .52 X 1.00 X .44
4	5049238	1	BELT, SPROCKET DRIVE
5	5049221	3	SPACER, 1.00 X 1.50 X 1.19
6	5021976	1	PULLEY, IDLER 6-3/4"
7	5025017X32	1	BOLT, 1/2-13 X 4 GD5
8	5050857X2P5	1	HOSE, 3/8" PUSH - ON
9	5021541	2	BUSHING, FLANGE
10	5403007D	1	WELD, IDLER ARM
11	5025017X24	1	BOLT, 1/2-13 X 3" GD5
12	5025396	3	NUT, 1/2-13 HEX NYLOCK FLANGE
13	5025017X36	1	BOLT, 1/2-13 X 4-1/2 GD5
14	5025150	2	WASHER, 1/2 USS
15	5025389	2	KEY 1/4" X 3/4
16	5020095	1	GREASE FITTING, 1/4-28 STR
17	5044677	2	WASHER, REINFORCEMENT
18	5025405	2	NUT, 3/4-16 HEX
19	5025406	2	WASHER, 3/4 BELLEVILLE
20	5050407X8	1	KEY, 1/4" SQ. X 1.00"
21	5047142	1	SPACER, .52 X 1.00 X .70
22	5061339	1	SPACER, .52 X 1.00 X 3.42
23	5101306	1	SPACER, 1.00 X 1.50 X 1.00
24	5101121	1	BELT, B-SECTION, 94.00" EL
25	5023340	1	SPRING-EXT, 1.04OD X 10.54LG X .148WR
26	5101302	1	PULLEY, 6" DEEP GROOVE, IDLER W/ INSERT (SV)
27	5101303	1	PULLEY, FLAT IDLER, 5.00 X .75 W/ INSERT (SV)
28	5025440	1	WASHER, 1/2" GD9 YZ
29	5025017X26	1	BOLT, 1/2-13 X 3-1/4 GD5
30	5025056	1	NUT, 1/2-13 HEX NYLON LOCK
31	5025038	1	NUT, 1/2-13 HEX

Footnotes

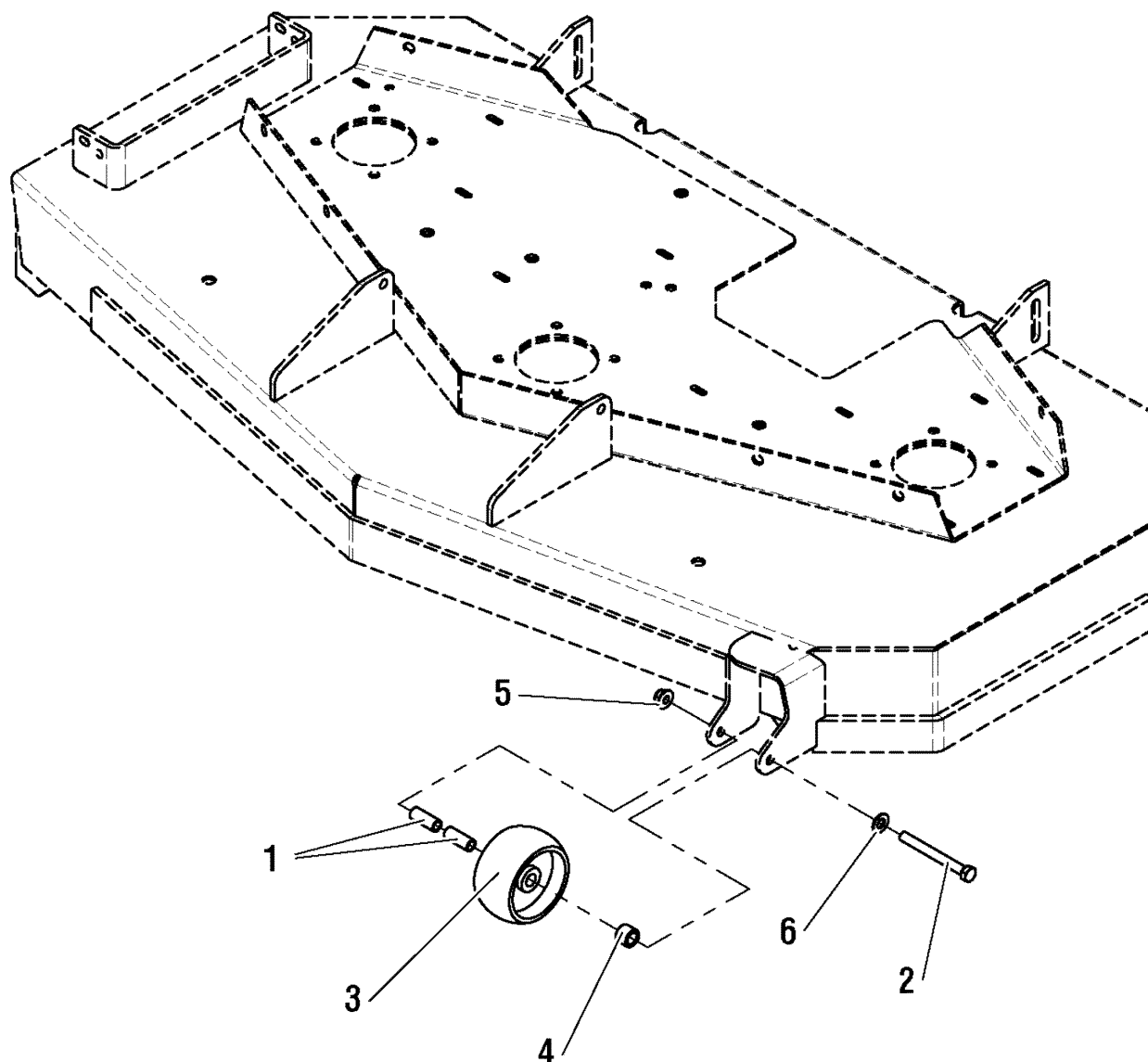
The above parts group applies to the following Mfg. Nos.:

5900683

48" Mower Deck - Rollers

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5301024



The above parts group applies to the following Mfg. Nos.:

5900709

5900734

48" Mower Deck - Rollers

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5041931	2	SPACER, .38 X .50 X 1.25
2	5025013X28	1	BOLT, 3/8-16 X 3-1/2 GD5 YZ
3	1714760	1	WHEEL - 2.00 WIDE 3.92 DIA 0.513 ID POLY
4	5047027	1	SPACER, .51 X .75 X .56
5	5025394	1	NUT, 3/8-16 HEX NYLOCK FLANGE
6	5025156	1	WASHER, 3/8 SAE

Footnotes

The above parts group applies to the following Mfg. Nos.:

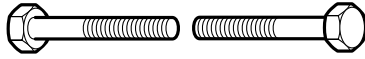
5900709

5900734

Hardware Identification & Torque Specifications

Common Hardware Types

Hex Head Capscrew



Carriage Bolt



Washer



Lockwasher



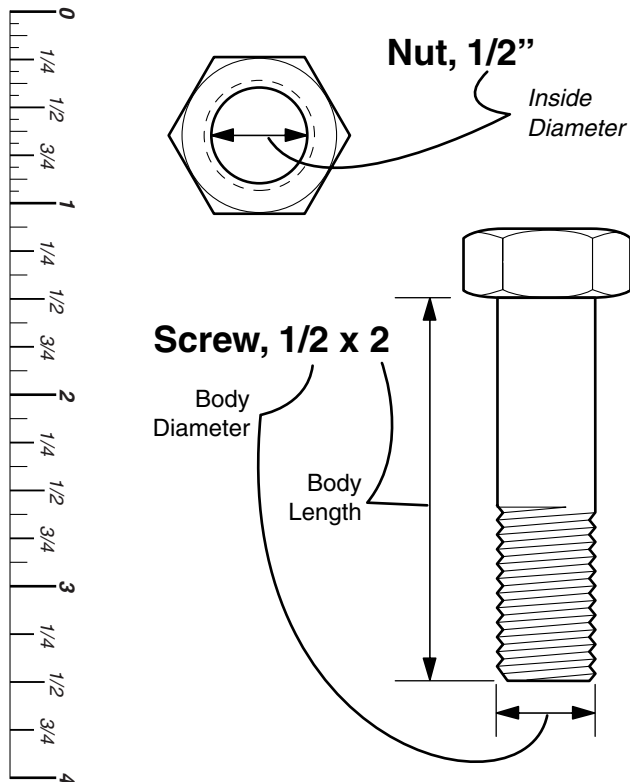
Hex Nut

Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represents the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.



Torque Specification Chart

FOR STANDARD MACHINE HARDWARE (Tolerance $\pm 20\%$)

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	27	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

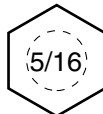
NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

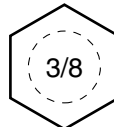
Wrench & Fastener Size Guide



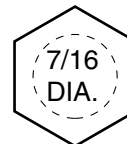
1/4" Bolt or Nut
Wrench—7/16"



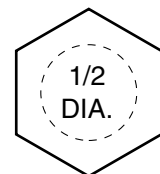
5/16" Bolt or Nut
Wrench—1/2"



3/8" Bolt or Nut
Wrench—9/16"



7/16" Bolt or Nut
Wrench (Bolt)—5/8"
Wrench (Nut)—11/16"



1/2" Bolt or Nut
Wrench—3/4"

Parts Manual S50X Series

Zero-Turn Riding Mower

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